SCIENCE INSTITUTE
OF THE NORTHWEST TERRITORIES

1990/1991 Compendium of Scientific Research in the Northwest Territories

Box 1617
Yellowknife, NT X1A 2P2
PHONE (403) 873-7592
FAX (403) 873-0227

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Mandate of the Science Institute

The Science Institute of the Northwest Territories was established to improve the quality of life for Territorial residents by applying indigenous knowledge, science and technology. The Institute will accomplish this by:

Continuously assessing the potential for science, engineering and technology for solving northern problems and advancing social and economic goals,

Fostering a scientific community within the Northwest Territories that recognizes and uses northern aboriginal knowledge,

Conducting, recommending and supporting studies and research which aid in advancing northern, scientific and technological solutions,

Encouraging young people to take an active interest in science, technology and traditional knowledge,

Administering the Scientists Act on behalf of the Government of the Northwest Territories,

Supporting research and technology development through the operation of the Institute's Research Centres,

Providing advice to the Legislative Assembly of the Northwest Territories on matters of science, engineering and technology and,

Publishing and disseminating the results of the Institute's work.

SCIENCE INSTITUTE
OF THE NORTHWEST TERRITORIES

Science Institute Of the Northwest Territories Research Permits 1990/1991

SCIENCE INSTITUTE

Under the N.W.T. Scientists Act, all scientific research must be licenced. Licences are obtained from the Science Institute, excepting research which falls under the jurisdiction of Renewable Resources (Wildlife) or the Prince of Wales Northern Heritage Centre (Archaeology).

For more information
please contact
Science Institute of the Northwest Territories
Box 1617
Yellowknife, NT X1A 2P2
Phone (403) 873-7592
Fax (403)873-0227

1990/1991

Research Compendium

Aboriginal Self-Government: A Case Study of the Baffin Regional Council

Linda White

#2 227 A Princess Street
Kingston, Ontario K7L 1B3

The Researcher will conduct interviews with members of the Baffin Regional Council, Baffin Region Inuit Association, local officials and officials of the Government of the Northwest Territories to investigate whether the Baffin Regional Council can be considered a working model of aboriginal self-government.

Region: Baffin
Locations: Iqaluit, NWT

File Number: 12 410 362

11110-N (1991)

Acquisition of English Speech Acts by Native Speakers of Inuktitut

Joseph Pater

41 Hillcroft Drive
Kingston, Ontario K7L 4E8

The Researcher will investigate how the cultural background of Native speakers of Inuktitut influences their use of the English language.

Region: Keewatin
Locations: Rankin Inlet

File Number: 12 410 374

11179-N (1991)

Active Layer Monitoring Network, Mackenzie Valley

Mark Nixon

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

The Researcher and his assistant will install active layer monitoring stations at up to eight (8) sites between northern Richards Island and Inuvik. They will sample the ice in and just below the present active layer to study recent change.

Region: Inuvik
Locations: Mackenzie Delta

File Number: 12 404 398

10151 (1990)

Active Layer Monitoring Network/Sub Surface Monitoring

Mark Nixon

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

The Researchers will make observations at sites installed north of Inuvik last season. They will install active layer monitoring stations between Inuvik and Fort Norman. Investigation of shot hole access and installation of active layer monitoring stations will be carried out around Hot Weather Creek.

Region: Inuvik
Locations: Mackenzie Valley and Delta; Hot Weather Creek, Ellesmere Island

File Number: 12 404 398

11120-R (1991)

Adult Literacy Case Studies Project

Mary Norton

11138 81 Avenue
Edmonton, Alberta T6G 0S5

The purpose of this research is to describe how people in Arviat have developed an Inuktituk literacy program for adults. The research will be published so that others working in the adult literacy field will be able to learn from experiences of the people in Arviat.

Region: Baffin
Locations: Arviat

File Number: 12 410 341

11009 (1991)

Akitsiraqvik

Norman Hallendy

Box 1
Carp, Ontario K0A 1L0

The Researchers will locate the sacred site - Akitsiraqvik. The last remaining Elder who knows the location of the site will act as guide and will interpret the meaning of this place where conflicts were resolved, justice exercised and where it is believed Shamen occasionally practised.

Region: Baffin
Locations: Inuksuk Point, SW Baffin and other related locations

File Number: 12 410 377

11193-N (1991)

Allometric Theory of the Self-Thinning Rule in Even-Aged Tree Populations

Akira Osawa

Forestry and Forest Products
Research Institute
Hitsujigaoka 1, Toyohira
Sapporo, JAPAN 004

The Researcher will measure stem diameter and height of individual trees representing ages five to sixty years. Approximately 15 small individual jack pines will be cut to estimate dry weights, and measurements of light conditions in various jack pine stands will be undertaken.

Region: Fort Smith
Locations: Areas south of Great Slave Lake, in and adjacent to Wood Buffalo Park

File Number: 12 402 412

11145-R (1991)

Alternative Pathway Respiration in Arctic Plants

W. Raymond Cummins

University of Toronto in Mississauga
Erindale Campus
Mississauga, Ontario L5L 1C6

Professor Cummins and his team will estimate potential productivity of plants in northern ecosystems & will investigate further the exceptionally high rate of respiration & alternative pathway respiration which they have discovered in arctic plants. They will use nitrate & ammonium electrodes to survey the levels of available nitrogen in wet & dry meadows on Devon

Region: Baffin
Locations: Devon Island; Truelove Lowland

File Number: 12 402 126

10012-R (1990)

Amadjuak Lake Archaeological Project

Douglas Stenton

c/o Environmental Technology Program
Arctic College
Box 1000
Iqaluit, NWT X0A 0H0

Begun in 1990, this project will continue to investigate the traditional land use patterns in the interior region of southern Baffin Island by combining oral history and archaeology. A survey will be conducted to record the exact locations, sizes and types of camps found along the trail. The information will be used to reconstruct the basic form of interior land use patterns and how they have changed over time.

Region: Baffin
Locations: Amadjuak Lake - Hudson Strait, Baffin Island

File Number: 12 410 160

11149-R (1991)

Analysis for Pingo Canadian Landmark

D. Scott Slocombe

Tamar Services
973 King Street W
Kitchener, Ontario N2G 1G7

To provide a basis for planning and management of the Pingo Canadian Landmark site, required by the Inuvialuit Final Agreement, the researchers will identify the significance of the biophysical, cultural and economic resources.

Region: Inuvik
Locations: Inuvik and Tuktoyaktuk

File Number: 12 410 364

11212-D (1991)

Apical Dominance and Growth Form in Herbaceous Sub-Arctic Plants

Catherine Vardy

Biology Department
Queen's University
Kingston, Ontario K7L 3N6

The Researcher will survey growth forms at two sites: one highly disturbed (i.e. a roadside) and one undisturbed site (i.e. a field). The plants will be measured and a shoot removed from approximately 20-100 plants. Seeds will be collected.

Region: Inuvik
Locations: Tuktoyaktuk, NWT

File Number: 12 402 454

10096 (1990)

Applied Geophysical Research in Permafrost

Scott Dallimore

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

The researcher and team will conduct several drilling, electrical, radar and seismic surveys to gain a better understanding of the geology and technical properties of ice bearing permafrost.

Region: Inuvik
Locations: Richards Island, NWT

File Number: 12 404 359

11026 (1991)

Archaeology of the Frobisher Voyages

William Fitzhugh

Department of Anthropology
Smithsonian Institution
Washington, D.C. U.S.A. 20560

The Researcher and his team will elucidate the earliest European settlement of the region and study its impact on local Inuit culture and history. They will collaborate with local educational, research and cultural institutions.

Region: Baffin
Locations: Lower Frobisher Bay and Cyrus Field Bay, and other outer coast regions of SE Baffin

File Number: 12 410 328

10186 (1990)

Archeology of the Frobisher Voyages and Early European-Inuit Contact

William Fitzhugh

Department of Anthropology
Smithsonian Institution
Washington, D.C. U.S.A. 20560

The Research project, begun in 1990, will survey the Frobisher sites at Kodlunarn Island, explore Frobisher's mines and other possible sites and study Inuit sites dating from before, during and after the Frobisher contact period.

Region: Baffin
Locations: outer Frobisher Bay environs

File Number: 12 410 328

11052-R (1991)

Architecture and Construction Technique in Northern Climate

Kayhan Nadji

41 Gold City Court
Yellowknife, NWT X1A 3P7

This research will investigate the relationship between the architectural and technical aspects of buildings and severe northern climate.

Region: MULTI
Locations: All Regions, N.W.T.

File Number: 12 406 027

11115-N (1991)

Arctic Building Design and Urban Planning

Inngi Bisgaard

Arctic Institute of North America
The University of Calgary
Calgary, AB T2N 1N4

The Researcher will interview individual architects, engineers, and government department employees concerning housing design and construction in the eastern and western arctic.

Region: BA/IN
Locations: Inuvik, Tuktoyaktuk and Iqaluit

File Number: 12 406 022

10116 (1990)

Arctic Cisco Migrations and Life History

W.A. Bond

Freshwater Institute
Fisheries & Oceans Canada
501 University Crescent
Winnipeg, Manitoba R3T 2N6

Since 1989 the Department of Fisheries and Oceans have conducted trap netting studies to monitor fish movements in Wood Bay near the mouth of the Anderson River. This is the last year of this study. They will examine the movements of the Arctic Cisco within Liverpool Bay.

Region: Inuvik
Locations: Wood Bay near the mouth of the Anderson River

File Number: 12 402 432

10010-R (1990)
11094-R (1991)

Arctic College Guide Development Program

Noel Sinclair

81 Douglas Crescent
Toronto, Ontario M4W 2E6

Mr. Sinclair will study the Arctic College Guide Development course, interview instructors, administrators and other course participants, to determine the effectiveness of the program.

Region: Fort Smith
Locations: Ft. Smith

File Number: 12 410 317

10077 (1990)

Arctic Dreams: Northern Tourism and Baffin Inuit Community Development

George W. Wenzel

Department of Geography
McGill University
805 Sherbrocke Street W
Montreal, Quebec H3A 2K6

This investigation will provide an analytical perspective on two aspects of northern tourism important to an understanding of the overall direction of economic development in contemporary Eastern Arctic Inuit communities. Four specific aspects of the government of the Northwest Territories tourism strategy will be studied.

Region: Baffin
Locations: Clyde River, Lake Harbour

File Number: 12 410 106

11146-R (1991)

Arctic Hydrographic Survey

John Medendorp

867 Lakeshore Road
Box 5050
Burlington, Ontario L7R 4A6

The Researcher and his team will carry out a survey which involves landing on the ice at 2 kilometre intervals for water depth measurement and every 6 kilometres for a gravity reading. The depth measurements will be used to show more data on navigation charts and the gravity readings will be added to the gravity data base.

Region: Baffin
Locations: Admiralty Inlet; Navy Board Inlet; Eclipse Sound; Pond Inlet

File Number: 12 404 393

11017 (1991)

Arctic Quaternary Geologic Field School

Michael Retelle

Department of Geology
Bates College
Lewiston, Maine, USA 01003

The field school introduces students to the processes operating in the modern physical environment in a glaciated terrain.

Region: Baffin
Locations: Frobisher Bay area

File Number: 12 404 264

11224-L (1991)

Arctic Shorebirds and their Habitats in the Foxe Basin, NWT

Guy Morrison

Canadian Wildlife Service
National Wildlife Research Centre
100 Gamelin Boulevard
Hull, PQ K1A 0H3

This is a continuation of a project begun in 1986 to study year to year variation in breeding densities of shorebirds. The Researcher and team will determine which species of birds breed on the islands of the Foxe Basin, which habitats they use and how their numbers change from year to year. They are also interested in producing a map of the main wildlife habitats on the islands using satellite images.

Region: Baffin
Locations: Foxe Basin, NWT

File Number: 12 402 436

10067-R (1990)
10093-R (1990)

Arctic Tourism: A Study of its Impact Potential in Small Inuit Communities

George W. Wenzel

Department of Geography
McGill University
805 Sherbrooke Street W
Montreal, Quebec H3A 2K6

In co-operation with the communities of Clyde River and Pangnirtung a study will be carried out to gather data on Inuit experiences with tourism already ongoing in Pangnirtung for comparison with experiences of Inuit in Clyde River's developing program.

Region: Baffin
Locations: Clyde River and Pangnirtung, N.W.T.

File Number: 12 410 106

10083 (1990)

Arctic Vigil: Canadian Climate Researchers in the North

Rosemary Frei

Box 61238
217K - 3630 Morley Trail N.W.
Calgary, Alberta T2N 3L3

Ms. Frei will spend a period of nine days in the area of Inuvik and Tuktoyaktuk with the objective of gathering material for a series of popular articles and/or radio programs for the Canadian Airlines Inflight magazine and for Canadian Geographic. The articles will mainly deal with research on climate change being carried out in the Arctic.

Region: Inuvik
Locations: Richards Island, NWT

File Number: 12 410 320

10112 (1990)

Assessment of Non-Renewable Resources of the Bluenose Lake Area, N.W.T.

Timothy Jones

291 Wellington Street
Sudbury, Ontario P3E 3V8

The Research team will continue work begun in 1990 to carry out a resource evaluation of the Bluenose Lake area. A national park has been proposed for the area. Before land can be set aside as a park reserve an assessment of non-renewable (oil, gas, minerals) resource potential is required.

Region: Inuvik
Locations: Bluenose Lake area
File Number: 12 404 405

10176 (1990)

11079-R (1991)

Atmospheric Contaminant Depositional Histories in Lake Sediments

Gregg Brunskill

Department of Fisheries and Oceans
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba R3T 2N6

The Researcher and team will obtain live fish for immediate field dissection and dry ice freezing of tissue samples for contaminant, enzyme and protein measurements. Large core samples of deep lake muds are sliced into thin layers in the field for radiochemical estimation of slice age and the measurements for organochlorines, PAHs, metals and other geochemical parameters.

Region: Baffin
Locations: NE Coast Axel Heiberg Island
File Number: 12 402 473

11061-R (1991)

Atmospheric Fluxes of PCBs and Pesticides to Southern Hudson Bay

Mark H. Hermanson

Illinois State Water Survey
2204 Griffith Drive
Champaign, Illinois, U.S.A. 61820

The Researcher and his assistant will collect sediment cores from two lakes (Annak and Imitavik) in the Sanikiluaq area. Cores will be sliced into horizontal sections and will be analyzed for radioisotopes used to identify ages of the sediment layers. The sections will also be analyzed for organic compounds.

Region: Baffin
Locations: Sanikiluaq
File Number: 12 402 332

10197 (1990)

Bathymetric and Gravity Survey of Foxe Basin

David G. Pugh

Hydrographer-in-charge
Canadian Hydrographic Service
Bayfield Institute, 867 Lakeshore Road
Burlington, Ontario L7R 4A6

The Researcher will collect information for government departments to fulfill their respective mandates. The information will be made available through navigation charts used for marine transportation.

Region: Baffin
Locations: Foxe Basin, Latitude 70-30 N, south to Latitude 66-30 N
File Number: 12 404 376

10028 (1990)

Behavioral and Population Biology of Polar Bears and Seals

Ian Stirling

Canadian Wildlife Service
1110-10025 Jasper Avenue
Edmonton, Alberta T5J 1S6

The researcher and his team will study late winter/early spring distribution and abundance in and out of polynya areas; the distribution of seals in relation to polynyas, sea ice conditions, patterns of freeze-up; distribution of ringed seal pupping areas and distribution of polar bears and proposed winter shipping lanes.

Region: Baffin
Locations: Penny Strait, Radstock Bay
File Number: 12 402 170

10046-R (1990)

Behavioural and Physiological Adaptations to Cold in a High Arctic Insect

Olga Kukal

Department of Biology
University of Victoria
P.O. Box 1700
Victoria B.C. V8W 2Y2

Dr. Kukal will continue investigating the cold adaptations of a moth which survives freezing in the immature stages.

Region: Baffin
Locations: Alexandra Fiord, Ellesmere Island

File Number: 12 402 373

10057-R (1990)

Biogenic Bromine Production, Ice Algal Physiology and Sea Ice Optics

Glen Cota

Graduate Program in Ecology
108 Hoskins Library
University of Tennessee
Knoxville, Tennessee, U.S.A.

The Researcher & his team will find out what marine plants contain and/or release organohalogen gases. The release of these gases is a natural source of pollution which has been going on for thousands of years. The research will identify various natural sources for organo & measure their rates of release in relation to normal growth processes.

Region: Baffin
Locations: Resolute Passage off Sight Point between Griffiths and Cornwallis Island.

37996-1610
11040 (1991)

File Number: 12 402 478

Biology and Cold Hardiness of Aphids in the Canadian Arctic

Richard A. Ring

Department of Biology
University of Victoria
P.O. Box 1700
Victoria, British Columbia V8W 2Y2

Professor Ring will continue an ongoing study on arctic insect cold-tolerance.

Region: Inuvik
Locations: Inuvik, Tuktoyaktuk

File Number: 12 402 210

10121-R (1990)

Biology of Predaceous Insects in the Canadian Arctic

Adrian deBruyn

Department of Biology
University of Victoria
Victoria, BC V8W 2Y2

The Researcher will investigate the biology of predaceous insects in terrestrial and freshwater habitats. An inventory of predaceous insects will be conducted through trapping and collecting. Their prey and habits will also be identified.

Region: IN/BA
Locations: Alexandra Fiord; Inuvik and Tuktoyaktuk

File Number: 12 402 489

11154-N (1991)

Biostratigraphy and Paleontology of the Eureka Sound Formation

Leo J. Hickey

82 Blake Road
Hamden, Connecticut, U.S.A. 06511

The Researcher and team will collect and examine fossil materials which will then be deposited with the National Museum of Canada and the Geological Survey of Canada. This is a continuation of a study begun in 1973 by R. West and M. Dawson involving the biostratigraphy and paleontology of the Eureka Sound Formation.

Region: Baffin
Locations: Kanguk Peninsula between Strand and Expedition Fiords, Axel Heiberg Island

10163 (1990)

File Number: 12 404 401

Births, Deaths, and Still Births in the Kativik Region

Mary Kay May

Assistant General Manager
Kativik Regional Board of Health
and Social Services, Box 9
Kuujjuaq, Quebec J0M 1C0

Ms. May, with the assistance of the Keewatin Regional Nursing Officer will search N.W.T. medical records for information on births, deaths and still births for residents of the Kativik region of Northern Quebec who may have been provided with medical service in the Keewatin during 1973-1986.

Region: Keewatin
Locations: Keewatin Region, N.W.T.
File Number: 12 408 080

10053 (1990)

Bluenose Lake Natural Resources Survey

George Scotter

Canadian Wildlife Service
Room 210, 2nd Floor
4999 - 98 Avenue
Edmonton, Alberta T6B 2X3

The Researcher and team will carry out this survey at the request of the community of Paulatuk. They will summarize the existing knowledge of the natural resources of the Bluenose Lake Region. A total of about 20 stops will be made to examine the vegetation, soil, wildlife and physiogeography and to collect plant and soil samples.

Region: Inuvik
Locations: Bluenose Lake Region
File Number: 12 404 396

10141 (1990)

BORUP FIORD 91

K.W. Hankinson

Operations Wing
RAF Valley
Holyhead
Gwynedd, Great Britain

Multi-disciplinary research will be undertaken in botany, geology, micro meteorology, soil science, remote sensing, breeding biology of Arctic char and archaeological survey. These studies are a continuation of those begun in 1988.

Region: Baffin
Locations: Borup Fiord (head of Esayoo Bay)
File Number: 12 404 414

11029-R (1991)

Brachiopod Stratigraphy and Sedimentology of Upper Devonian Strat

Linda Stanton

11443-77 Avenue
Edmonton, Alberta T6G 0L9

The Researcher will study outcrops and collect rock samples to clarify existing information on Hay River area biostratigraphy and paleontology. A comparison of Hay River brachiopods (fossils) will be made with other regional, North American and global collections.

Region: Fort Smith
Locations: Hay River and vicinity
File Number: 12 404 406

10194 (1990)

Breeding Biology of the Harris' Sparrow and White-crowned Sparrows

Christopher Norment

Graduate Fellow
Museum of Natural History
University of Kansas
Lawrence, Kansas USA 66045

Mr. Norment is studying the breeding biology of the Harris' Sparrow and White-crowned Sparrow. He will be collecting data on any physical (such as weather, food supply, nest-site, predators) or genetic (such as number of eggs, breeding cycle, condition of females) factors.

Region: Keewatin
Locations: Thelon Game Sanctuary
File Number: 12 402 429

10063-R (1990)

11082-R (1991)

Breeding Biology of Two Species of Arctic Willow

Luise Hermanutz

Department of Biology
Memorial University
St. John's, Newfoundland A0A 3X9

The researcher will investigate the factors that govern the growth and reproduction of 2 types of willow on Baffin Island. She will compare the numbers of seeds each species produces and attempt to determine how successful male clones are in producing offspring.

Region: Baffin
Locations: Tarr Inlet

File Number: 12 402 446

10054 (1990)

Canadian Inuit Resettlement Projects

Alan R. Marcus

Scott Polar Research Institute
University of Cambridge
Lensfield Road
Cambridge, CB2 1ER England

The Researcher will investigate two case studies: the 1953-55 relocation from Inukjuak, Quebec to Resolute Bay and Grise Fiord and the 1957-58 resettlement from Ennadai Lake to North Henik Lake and Eskimo Point. Using several methods, the research will integrate an understanding of the political processes involved at the time, with the long-term social and economic effects of the resettlements on Inuit today.

Region: Baffin
Locations: Resolute Bay, Grise Fiord, Arviat, Yellowknife, Iqaluit

11205-N (1991)

File Number: 12 410 380

Canadian Parks Service - 1990 Fieldwork, North Baffin Island

Douglas Harvey

Senior Planner - Northern Parks
Canadian Parks Service
Ottawa, Ontario K1A 0H3

The Researcher and a member of the local Park Committee will review boundary options and operational requirements for ongoing efforts to establish a national park in the area of north Baffin Island.

Region: Baffin
Locations: North Baffin Island, in the vicinity of Pond Inlet and Arctic Bay

File Number: 12 410 289

10183 (1990)

Cape Dorset Women Artists

Odette Leroux

Curator of Inuit Art
Canadian Museum of Civilization
Box 3100, Station B
Hull, Quebec J8X 4H2

The Researcher and her team will interview Cape Dorset male and female Inuit artists for a planned future exhibition of Inuit Art at the Canadian Museum of Civilization. She will also visit the Iqaluit and Cape Dorset museums and Cultural Centres.

Region: Baffin
Locations: Iqaluit and Cape Dorset, NWT

File Number: 12 410 261

11032 (1991)

Carbon Allocation in the Arctic Poppy

Andrea Corbett

Department of Biology
Queen's University
Kingston, Ontario K7L 3N6

The Researcher will supply Carbon-14 to leaves and flowers of the Arctic Poppy. The plants will be harvested and parts treated to determine where the carbon was allocated.

Region: Baffin
Locations: Iqaluit, N.W.T.

File Number: 12 402 451

10088 (1990)

Cardiovascular Performance and Adaptations of Arctic Char

Mark S. Graham

Vancouver Public Aquarium
Box 3232
Vancouver, B.C. V6B 3X8

The study will involve capturing freshwater char to use in laboratory experiments. The body temperature of fish is the same as the water they live in. Therefore, arctic fishes live their lives at or near the freezing mark. This work will investigate the mechanical functions of Arctic Char hearts: how powerfu they are, how much blood they can pump and what is a reasonable maximum work load.

Region: Baffin
Locations: Resolute Bay

11086-N (1991)

File Number: 12 402 485

Climate Change at the Forest/Tundra Boundary

Simon Landhaeusser

9612 100A Street
Edmonton, Alberta T5K 0V8

The Researcher will study regions of past burned areas south and north of Inuvik to determine if post-fire spruce establishment has occured not only on areas formally dominated by spruce, but also on larger areas that were formerly tundra.

Region: Inuvik
Locations: Inuvik

File Number: 12 402 448

10060 (1990)

Climate Change at the Forest/Tundra Boundary

Simon Landhaeusser

9612 100A Street
Edmonton, Alberta T5K 0V8

The Researcher and his team will seed and plant plots prepared in 1990. They will determine the germination rate, establishment and the annual growth of the seedlings. The measurements will be related to the energy input which influences these microsites.

Region: Inuvik
Locations: Inuvik and Tuktoyaktuk

File Number: 12 402 448

11048-R (1991)

Clyde River Ethnoarchaeological Project

Peter James Whitridge

Department of Anthropology
McGill University
855 Sherbrooke Street W
Montreal, Quebec H3A 2T7

The Researcher will accompany hunters from the site of kills at the floe edge or seal breathing hole through all stages of ringed seal carcass treatment. Research will focus on the patterned dismemberment of carcasses for transport and consumption, including weights and composition of butchering units and other factors such as cooking techniques, socially prescribed distribution and refuse disposal.

Region: Baffin
Locations: Clyde River, NWT

11039 (1991)

File Number: 12 410 348

Coastal Geology of Northern Richards Island, Canadian Beaufort Sea

Donald Forbes

Atlantic Geoscience Centre
Box 1006
Dartmouth, Nova Scotia B2Y 4A2

Geophysical surveys will be carried out from a 40-foot vessel and from 16-foot rubber boats to deploy current meters at two sites in water depths of approximately 2 meters, to collect beach, cliff and seabed sediment samples and to survey beach and cliff morphology using theodolites and surveyors instruments.

Region: Inuvik
Locations: Northern Richards Island coastal zone

File Number: 12 404 399

10154 (1990)

Coastal Project 243-90

R.B. Taylor

Atlantic Geoscience Centre
Geological Survey of Canada
Bedford Institute of Oceanography
Box 1006
Dartmouth, NS B2Y 4A2

The Researcher will document shoreline changes over a 10-20 year interval at a series of locations throughout the Arctic Islands. Detailed examination of the coastal characteristics of the shores fringing the Arctic Ocean will also be undertaken.

Region: Baffin
Locations: Arctic Islands

File Number: 12 404 294

10119 (1990)

Coastal Retreat and Shoreface Dynamics

Arnaud Hequette

Departement de geographie
Universite Laval
Ste-Foy, Quebec G1K 7P4

The Researcher and team will conduct cliff and beach surveys to measure change in the shoreline position. They will also survey shallow lagoon and nearshore zones in the area of Drift Point and Atkinson Point. Seafloor sediment samples will be collected using a grab sampler and a portable piston corer.

Region: Inuvik
Locations: Tuktoyaktuk Peninsula coastline, from the Hamlet of Tuktoyaktuk to McKinley Bay

11136-N (1991)

File Number: 12 404 432

Coastal Sedimentary Processes and Geotechnical Conditions

Steven Solomon

Environmental Marine Geology
Atlantic Geoscience Centre
Box 1006
Dartmouth, Nova Scotia B2Y 1B7

The Researcher and his team will use a hand-operated auger to take sediment cores and temperature measurements. Cores will penetrate the seabed beneath the ice to a depth of 2-3 metres. Ground Penetrating Radar (GPR) will be used to investigate ground ice distribution and a current meter will be used to measure sub-ice currents along the edge of the bottom-fast ice.

Region: Inuvik
Locations: North Head, Richards Island

11025 (1991)

File Number: 12 404 319

Coastal Sedimentary Processes and Geotechnical Conditions

Donald Forbes

Environmental Marine Geology
Atlantic Geoscience Centre
Box 1006
Dartmouth, N.S. B2Y 1B7

The Researchers will use the ARKTOS 5 amphibious vehicle for geophysical surveying in the vicinity of Tuktoyaktuk and the proposed Amauligak pipeline landing site on Richards Island. They will measure nearshore sediment dynamics using wave and current meters at selected locations in the vicinity of the proposed pipeline landing site at North Head.

Region: Inuvik
Locations: Richards Island, Tuktoyaktuk Peninsula and selected monitoring sites between the Alaska border and Cape Bathurst

11142-D (1991)

File Number: 12 404 399

Collection of Samples from Hunted Beluga Whales

Sylvain De Guise

Universite de Montreal
3200 Sicotte
C.P. 5000
St. Hyacinthe, Quebec J2S 7C6

Dr. De Guise and his assistant, with the co-operation of the Hunters and Trappers Association, will accompany the beluga hunt. Samples of organs will be collected and saved in formalin for further examination at the University of Montreal.

Region: Keewatin
Locations: Arviat

File Number: 12 402 464

10167 (1990)

Community Action and Adult Education

Sarita Srivastava

44 Ames Circle
Don Mills, Ontario M3B 3C1

The Researcher will interview individuals and groups within community groups in order to learn about their history and accomplishments as well as the obstacles they have faced.

Region: Inuvik
Locations: Inuvik and Yellowknife

File Number: 12 410 319

10111 (1990)

Community Health Representative Training Program

Mavis Swann

#6 Phinney Court
Yellowknife, NWT X1A 2J4

At the request of Arctic College and the Territorial Department of Health descriptive data will be collected from students, program staff and supervisors to conduct an evaluation of the CHR training program.

Region: Fort Smith
Locations: Yellowknife, NWT

File Number: 12 410 321

10113 (1990)

Community Participation in Cultural Development

Leslie Boyd

West Baffin Eskimo
Co-operative Limited
Cape Dorset, N.W.T. X0A 0C0

The Researcher, assisted by a local interpreter will interview individuals and small groups in the community about the Kingnait Cultural Society and its plans to construct a Cultural Centre in Cape Dorset.

Region: Baffin
Locations: Cape Dorset, NWT

File Number: 12 410 325

10174 (1990)

Community-based Tourism in Pangnirtung, NWT: A Preliminary Evaluation

Gwen Reimer

Department of Anthropology
McMaster University
1280 Main Street West
Hamilton, Ontario L8S 4L9

Ms. Reimer will be continuing research begun in 1989. She will gather information from people involved in locally controlled tourism development. She will also collect information regarding the social and cultural effects of tourism in the community of Pangnirtung.

Region: Baffin
Locations: Pangnirtung, N.W.T.

File Number: 12 410 273

10110-R (1990)

Comparison of Tissue and Plasma Fatty Acid Composition

Helene Glemet

Department of Zoology
University of Guelph
Guelph, Ontario N1G 2W1

The Researcher will collect blood/hemolymph and tissues from representative Arctic marine fish, echinoderm, crustacean and mollusc species. The fish will be netted and the invertebrates dredged. Samples will be analyzed for their fatty acid composition. A sample size of 6-8 individuals will be required from each species.

Region: Baffin
Locations: Igloolik, NWT

File Number: 12 402 470

10209 (1990)

Compilation of Mineral Resources of the Yellowknife Mining District

Hendrik Falck

Department of Earth Sciences
Carleton University
Ottawa, Ontario K1S 5B6

The Researcher and his assistant will visit all known gold and mineral resource occurances in the Yellowknife area. The area immediately around the showing will be mapped as to rock types, structures and mineral resources. Samples are returned to town and analyzed for chemicals and minerals.

Region: Fort Smith
Locations: Yellowknife, N.W.T.

File Number: 12 404 383

10086 (1990)

Comprehensive School Health in the Northwest Territories

Susan Yazdanmehr

Health Promotion Officer
NWT Association for School Health
GNWT Department of Health, Box 1320
Yellowknife, N.W.T. X1A 2L9

A survey of teachers, education administrators, community health and social service personnel, selected personnel in the Territorial departments of Education, Health and Social Services will be conducted. The information is to be used to develop further implementation strategies for comprehensive school health in the N.W.T.

Region: ALL
Locations: All Regions

File Number: 12 410 315

10072 (1990)

Contaminants in the Mackenzie River Delta Water and Suspended Sediment

Juanetta Peddle

Water Quality Officer
Inland Waters Directorate - NWT Program
Environment Canada, Box 2970
Yellowknife, NWT X1A 2R2

The Researchers will establish an overview of background levels of contaminants in the Mackenzie R. Delta. The study includes collection of large volume water, suspended sediment & grab samples at both inflow & outflow sites of the Mackenzie River Delta. Large volume samples will be extracted at the Inuvik Research Centre, & concentrated before being shipped out for analysis.

Region: Inuvik
Locations: Mackenzie Delta - outflow and inflow locations

File Number: 12 402 492

11194-N (1991)

Contemporary Sedimentation Patterns in Small Lake Basins

Raoul Miller

INSTAAR, Campus Box 450
University of Colorado
Boulder, Colorado, U.S.A. 80309-0450

Mr. Miller and Mark Abbott will take water samples and cores from the sediment at the bottom of several lakes on Laird and Becher Peninsulas, Baffin Island. The purpose of the sample collection is to find out about past climate of the area and also to see what impacts human activity in the Arctic might have on these lakes.

Region: Baffin
Locations: Laird and Becher Peninsulas, Baffin Island

File Number: 12 404 354

10068-R (1990)

Control of Metabolic Rates in Arctic Plants

W. Raymond Cummins

University of Toronto in Mississauga
Erindale Campus
Mississauga, Ontario L5L 1C6

The Researcher and team will continue to collect information about respiration rates and growth rates in Arctic plants. They will confirm that Arctic plants have low rates of nitrate reductase activity and will determine if relationships exist between rates of respiration, photosynthesis and nitrogen reduction in these plants.

Region: Baffin
Locations: Truelove Lowland, Devon Island

File Number: 12 402 469

11024-R (1991)

Cooperation Between Canada and the USSR on Native Peoples of the North

Yuri Popkov

Siberian Section
Academy of Sciences of the U.S.S.R.
Novosibirsk

The research team will study the attitudes towards work and the native peoples of northern Canada. Simultaneously, they will analyze objective conditions and subjective factors. Information will be gathered from official sources, participant observation and interviews in local communities using questionnaires.

Region: Inuvik
Locations: Aklavik, Tuktoyaktuk and Inuvik

File Number: 12 410 344

11016 (1991)

Coordinating Strategies For Northern Environmental Assessment Process

Ingrid Liepa

157 York Street
Waterloo, Ontario N2L 1Z6

The researcher will undertake a literature review of interorganizational relations and policy making, public administration and environmental assessment. Individuals in the public service will be interviewed to gather working perspectives on the opportunities for and constraints to various coordinating strategies.

Region: IN/FS
Locations: Inuvik and Yellowknife, N.W.T.

File Number: 12 410 305

10023 (1990)

Creation and Utilization of an Artifical Reef in the Churchill Region

Sheila Thornton

Natural Resources Institute
177 Dysart Road
Winnipeg, Manitoba R3T 2N2

The Researcher will create an artifical reef in the Churchill region and develop an arctic ecosystem study site. She will create a species inventory which will invoive benthic sampling using SCUBA gear. Species include benthic marine invertebrates, fish and pelagic invertebrates found in 0-20 metres of water.

Region: Baffin
Locations: marine waters off Churchill, Manitoba

File Number: 12 402 466

10171 (1990)

Crime, Law and Justice Among Inuit in the Baffin Region

Curt Griffiths

School of Criminology
Simon Fraser University
Burnaby, BC V5A 1S6

This project is designed to examine the patterns of crime and the delivery of justice services to Inuit communities in the Baffin Region, N.W.T. A need has been identified to develop alternative, community-based justice programs and services that may serve to reduce the dependency of communities and which may be more effective in addressing the needs of Inuit communities, victims, and offenders.

Region: Baffin
Locations: Baffin Region

File Number: 12 410 334

10214 (1990)

Crime, Law and Justice Among Inuit in the Baffin Region

Curt Griffiths

School of Criminology
Simon Fraser University
Burnaby, BC V5A 1S6

The Researchers will continue to examine the patterns of crime and the delivery of justice services to Inuit communities in the Baffin Region. The major objective for 1991 will be the completion of extensive interviews with a wide range of individuals involved in the delivery of justice and social services in the N.W.T. generally, and in the Baffin Region specifically.

Region: Baffin
Locations: Baffin Region

File Number: 12 410 334

11152-R (1991)

Data Collected by Orbiting Satellites to Detect and Monitor Arctic Surfaces

Cheryl Pearce

Department of Geography
University of Western Ontario
Social Sciences Centre
London, Ontario N6A 5C2

The Researcher will examine what distinguishes arctic surfaces spatially & spectrally & which surfaces can be detected & identified by sensors on orbiting satellites. Will test the hypothesis that orbiting satellites can be used to detect & monitor thaw slumps, coastal erosion & other physical and biological manifestations of environmental change in the arctic.

Region: Inuvik
Locations: Mackenzie Delta, Arctic Coastal Plain between Herschel Island and Anderson River Delta, treeline between Inuvik and Anderson River

File Number: 12 402 342

10143-R (1990)

Dempster Highway Geology Guidebook

Gary White

Manager
Inuvik Research Centre
Box 1430
Inuvik, NWT X0E 0T0

The Researcher will use simplified geological maps, diagrams, colour photographs and text to illustrate the geology and geological history along the highway. Emphasis will be on points of interest travellers can visit and photograph.

Region: Inuvik
Locations: Inuvik to Yukon/NWT Border

File Number: 12 404 388

10114 (1990)

Dendrochronology of Arctic Driftwood

Olafur Eggertsson

Department of Quaternary Geology
Lund University Box 117
Byggnadsbyran
Sweden 221 00

The Researcher will sample about 100-200 driftwood logs using a chain-saw to cut off a 1-2 cm plate about 0.5 m inside the end of each log. The material will be shipped to Lund University laboratory for examination.

Region: Inuvik
Locations: Tuktoyaktuk and Inuvik

File Number: 12 402 450

10087 (1990)

Dene Clothing Research

Judy Thompson

Canadian Museum of Civilization
100 Laurier Street
Box 3100, Station B
Hull, Quebec J8X 4H2

Dene seamstresses will be interviewed about their life & work. Community residents will also be consulted regarding a proposed exhibition of Dene clothing. Sewing samples by contemporary Dene women will be purchased for the permanent collection at the Museum of Civilization.

Region: Inuvik
Locations: Fort Good Hope; Fort MacPherson; Norman Wells

File Number: 12 410 378

11196-N (1991)

Dene Leadership Styles

Sarah Pocklington

10744 - 125 Street
Edmonton, Alberta T5M 0L2

The Researcher will conduct interviews and library studies to study the leadership styles of Dene living in the Northwest Territories.

Region: Fort Smith
Locations: Yellowknife

File Number: 12 410 331

10193 (1990)

Dene Traditional Environmental Knowledge Pilot Project

Martha Johnson

Research Director
Dene Cultural Institute
Box 570
Hay River, NT X0E 0R0

The information gathered will be used to establish a system of wildlife management and land use planning in Denendeh that combines both western scientific and traditional approaches to environmental management. Information will also be used for curriculum development in the sciences and social studies programmes.

Region: Inuvik
Locations: Ft. Good Hope, N.W.T.

File Number: 12 410 297

10033-R (1990)

Dene Traditional Justice Case Study

Joan Ryan

General Delivery
Lac La Martre, NWT X0E 1P0

The Dene Traditional Justice Case Study will document the traditional laws and justice mechanisms of the Dogrib people. The research will address concerns about the effectiveness of the current justice system for Dene in the Northwest Territories. Local Dogrib researchers will be trained and employed to carry out the work.

Region: Fort Smith
Locations: Lac La Martre; Snare Lake; Rae and Rae Lakes

File Number: 12 410 345

11022 (1991)

Deposition and Fate of Trace Organic Contaminants in Arctic Aquatic Systems

Dennis Gregor

P.O. Box 5050
867 Lakeshore Road
Burlington, Ontario L7R 4A6

Snow samples will be collected from very remote sites of mainland NWT during visits to stations maintained by Water Resources Branch. Samples will also be collected at several high Arctic weather stations. Intensive sampling will also be conducted on Agassiz Ice Cap near Resolute. Samples will be analyzed for pesticides, PCBs and other compounds.

Region: Baffin
Locations: Agassiz Ice Cap; Baker Lake; Mould Bay; Eureka; Alert; Resolute

File Number: 12 404 350

10021 (1990)
11027-R (1991)
11076-R (1991)

Development of a Backup Communications System

John I. Strickland

Diversitel Communications
190 Colonnade Road
Nepean, Ontario K2E 7J5

The Researcher will install digital radio repeaters at several sites, monitor the signal strength; measure the accuracy of data transmission over the link; and establish the feasibility of the prototype design.

Region: Inuvik
Locations: Shingle Point and Nicholson Peninsula (various locations between)

File Number: 12 406 021

10035 (1990)
11042-R (1991)

Development of Guidelines for the Disposal of Hazardous and Special Wastes

Phyllis L. Heeney

University of Toronto
Department of Civil Engineering
35 George Street
Toronto, Ontario

Under the supervision of the Department of Municipal and Community Affairs, Government of the NWT, the researcher will identify quantities, types and locations of hazardous waste generation, storage and disposal in the NWT as well as set up usable guidelines for the treatment, collection, storage and disposal of wastes in the Territories.

Region: Fort Smith
Locations: Yellowknife, NWT

File Number: 12 406 023

10158 (1990)

Devonian Carbonates and Reef Development

Alan E.H. Pedder

Geological Survey of Canada
3303-33 Street N.W.
Calgary, Alberta T2L 2A7

The Researcher will collect 1/2 to 2 kilogram samples of limestone. These are sent to a lab for processing which leaves small fossils of calcium phosphate. These are studied to determine their age and the conditions of the life of the fossils.

Region: Inuvik
Locations: Anderson River and Mackenzie Delta (SW of Campbell Lake)

File Number: 12 404 409

10206 (1990)

Diagenesis Associated with Various Upper Devonian Reef Complexes

Kenton Phimester

Department of Geology
1-26 Biological Sciences Building
University of Alberta
Edmonton, Alberta T6G 2E3

The Researcher and his assistant will carry out an analysis of rocks from ancient reefs in the Hay River area.

Region: Fort Smith
Locations: Heart Lake, Trout Lake and various localities along Hay River

File Number: 12 404 404

10162 (1990)

Diagenesis Associated with Various Upper Devonian Reef Complexes

Jonathan Bellow

Department of Geology
1-26 Biological Sciences Building
University of Alberta
Edmonton, Alberta T6G 2E3

The Researchers will continue analysis of rocks from ancient reefs in the Hay River area.

Region: Fort Smith
Locations: Heart Lake, Trout Lake and various localities along Hay River

File Number: 12 404 436

11163-N (1991)

Digital Database of Vegetation Types-Mackenzie Valley

Cindy Squires Taylor

Remote Sensing Analyst
GNWT Dept. Renewable Resources
Box 1320
Yellowknife, NWT X1A 2L9

The Researcher will conduct a survey, approximately 30 km on either side of the Mackenzie R. using satellite imagery. A classification will be undertaken of the area from the Mackenzie Delta to the Ft. Simpson area, with wider zones along the E side to include proposed pipeline routes.

Region: Inuvik
Locations: Ft. Norman and Mackenzie Delta; Ft. Simpson and Wrigley

File Number: 12 404 433

11157-N (1991)

Displacement Analysis on the Southern Stolz Thrust, Axel Heiberg Island

W.M. Schwerdtner

Department of Geology
University of Toronto
22 Russell Street
Toronto, Ontario M5S 3B1

The Researcher will apply new field methods to the Stolz fault, a major dislocation structure of the Eureka Sound fold belt. The project is research in pure geology. This location was chosen because the rocks under study are exceptionally preserved in the dry arctic climate

Region: Baffin
Locations: southeastern Axel Heiberg Island

File Number: 12 404 209

10178-R (1990)
11133-R (1991)

Distribution and Abundance of Walrus/Beluga

Pierre Richard

501 University Crescent
Winnipeg, Manitoba R3T 2N6

The researcher and team will continue their study to census walrus in the area of northern Hudson Bay, and beluga in the area of southeast Baffin Island. Using remote sensing tools and twin otter aircraft they will census portions of the range of walrus and beluga to determine their distribution and abundance.

Region: Baffin
Locations: Northern Hudson Bay and southeast Baffin

File Number: 12 402 433

10168-R (1990)

Distribution and Genesis of Karst Landforms

James P. Hamilton

Department of Geography
The University of Lethbridge
Lethbridge, Alberta T1K 3M4

Karst landscapes are landforms developed on carbonate rocks in humid and temperate climates and are relatively rare in permafrost areas. The Researcher and team will focus on understanding how Karst has and is developing in the Northern Mackenzie Mountains. This will be done by identifying Karst forms and examining how water moves in these environments.

Region: Inuvik
Locations: Mackenzie Mountains, locations in the Canyon Ranges

File Number: 12 404 426

11106-N (1991)

Disturbance to Plant Communities on Truelove Lowland

Nina Hewitt

Department of Geography
The University of Western Ontario
London, Ontario N6A 5C2

The Researcher will carry out field work in association with Dr. Cheryl M. Pearce. The research will measure the nature and extent of human disturbance within the dominant plant communities on Truelove Lowland and attempt to correlate the disturbance with species composition, surficial materials, and the type of disturbance.

Region: Baffin
Locations: Truelove Lowland, Devon Island

File Number: 12 402 481

11050-N (1991)

Documentation of Trad. Inuit Practices Related to Pregnancy and Childbirth

Betty-Anne Daviss-Putt

Pauktuutit
Inuit Women's Association
200 Elgin Street
Ottawa, Ontario K2P 1K5

This project will combine analysis of interview data, review of available literature and the personal accounts of the elders. The elders will be asked to verbally respond to a series of open questions aimed at gathering data to meet the objectives of the research of traditional Inuit practices related to pregnancy and childbirth.

Region: Keewatin
Locations: Cape Dorset

File Number: 12 408 081

10149 (1990)

Domestic Violence and Inuit Women

Maria Eugenia Orozco

Pavillon Parent 4620
Universite Laval
Ste-Foy, Quebec G1K 7P4

The Researcher will work with the Baffin Regional Agvvik Society, a transition house for battered women and the Tuvvik Alcohol and Drug Counselling Centre, which has a program for batterers. Interviews will be conducted with RCMP, Department of Social Services and Department of Justice to evaluate the institutional response to domestic violence.

Region: Baffin
Locations: Iqaluit

File Number: 12 410 368

11139-N (1991)

Early Quaternary and Late Tertiary Geology and Geomorphology, Arctic Islands

John G. Fyles

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

The Researcher and his team will investigate the Beaufort Formation. They will measure the sequence of layers of sand and clay visible on hillsides and cut-banks, and collect samples from selected layers for laboratory study of (1) the paleomagnetic character of the formation, (2) plants and insects in the sand, and (3) marine organisms in the clays.

Region: Baffin
Locations: Meighen Island and White Point, Arctic Islands and other sites on N.W. Ellesmere Island

10182 (1990)
11166-R (1991)

File Number: 12 404 405

Ecologie de la Reproduction des Plants Turbicoles et Arctic

Paul Comtois

Laboratoire d'Aerobiologie
Departmente de Geographie
University de Montreal, C.P. 6128,
Succ.A
Montreal, Quebec H3C 3J7

The Researcher will study the behavior of pollinating insects (bees) in ecosystems dominated by plants of the blueberry family (Ericacees). They will investigate competition between flowering plants syncronized for the same insect pollinators. Most of their work will be conducted on Herschel Island. Minimal study will be conducted near Tuktoyaktuk near their base camp at Polar Continental Shelf Project.

Region: Inuvik
Locations: Tuktoyaktuk and Herschel Island

11071-N (1991)

File Number: 12 402 492

Education and Work in a Changing Society

Mitsuru Shimpo

Research Coordinator
c/o The Dene Cultural Institute
Box 570
Hay River, NT X0E 0R0

Dr. Shimpo will study the needs of the Dene as perceived by themselves and their educators regarding education and work. Through questionnaires and interviews, educational and training strategies may be developed which reflect a Dene perspective.

Region: SM;IN
Locations: Fort McPherson, Fort Franklin, Wrigley, Fort Rae, Fort Resolution, Rae/Edzo, Snowdrift; Fort Providence

File Number: 12 410 277

10047-R (1990)

Effect of Education on the Inuit Family in Hall Beach, N.W.T.

Eva Hergovich

5 Rapallo Mews
Mississauga, Ontario L5N 1K8

The Researcher & the teacher will present two questionnaires to all Grade 7, 8 & 9 students at Atanaarjuat School. They will investigate changes in family attitudes which might be attibutable to education & the television media. The first questionnaire will deal with family relationships & the classroom, the second with the influence of television on family life.

Region: Baffin
Locations: Hall Beach

File Number: 12 410 365

11118-N (1991)

Effect of Muskox Grazing on Oxytropis glutinosa

R. Harmsen

Biology Department
Queen's University
Kingston, Ontario K7L 3N6

The Researcher and his team will collect data on plant size, flowering, seed production, survival and for greenhouse germination experiments. Wire enclosures set up in the previous summer will be remapped.

Region: Inuvik
Locations: Confluence of Muskox and Thomsen Rivers, Banks Island, NWT

File Number: 12 402 455

10097 (1990)

Effects of the Ionospheric Auroral Zone on VLF/LF and HF Radio Waves

John E. Bickel

Mail Code 543, Dept of the Navy
Naval Ocean Systems Centre
San Diego, California, USA 92152

An antenna and a computer operated VLF (very low frequency) signal receiving and recording equipment will be set up in the AES in Fort Smith, this is a 2 year study and training is provided to AES personnel to collect data.

Region: Baffin
Locations: Fort Smith
File Number: 12 406 020

10003-R (1990)

Emplacement of Debris Flows on Continental Slopes, Baffin Bay & Labrador Sea

Richard Hiscott

Earth Sciences Department
Memorial University
St. John's, Newfoundland A1B 3X5

The Researchers will: map the geometry of debris-flow (mudflow) deposits; document bottom slopes and flow paths; relate debris-flow activity to Pleistocene history of the area and sea-bed cores and use this data to quantify the subaqueous (below water) debris-flow process.

Region: Baffin
Locations: Offshore Home Bay, Western Baffin Bay
File Number: 12 404 438

11203-N (1991)

Energy Composition/Summer Habitat Utilization by Babbage River Dolly Varden

Steve Sandstrom

Department of Fisheries and Oceans
501 University Crescent
Winnipeg, Manitoba R3T 2N6

The Researcher will continue to study the energy composition and summer habitat utilization by Babbage River Dolly Varden. Fish will be collected by a number of methods, measured, tagged and released. A sub-sample will be dead sampled for sex, maturity and aging structures and a number of dead samples will be frozen on site and transported to Winnipeg for analysis.

Region: Inuvik
Locations: Babbage River, Yukon North Slope
File Number: 12 402 452

11020-R (1991)

Environmental Studies of the Ice-Bearing Region in Canadian Arctic

Kazuo Fujino

N-19, W-8, Kita-Ku
Saporo, Hokkaido, JAPAN 060

The Researcher and field team will conduct a geological survey and topographic traverse survey around the massive ground ice. They will take samples for ecological study and geochemical analysis.

Region: Inuvik
Locations: Inuvik and Tuktoyaktuk
File Number: 12 404 408

10196 (1990)

Environmental Monitoring Study - Lupin Mine

Andre d'Entremont

Environmental Protection
Environment Canada
Box 370
Yellowknife, NWT X1A 2N3

A sampling program will be undertaken where sediment and benthic organisms will be collected at six sites sampled in 1985. The samples will be analysed to determine if any statistically significant changes in the sediment chemistry and species diversity and abundance have occurred since the mine began operation in 1985.

Region: Kitikmeot
Locations: Contwoyto Lake
File Number: 12 402 354

10198 (1990)
11190-R (1991)

Environmental Reconstruction on the Pre-Foxe Terrain, Cumberland Peninsula

Alexander Wolfe

Department of Geography
Queen's University
Kingston, Ontario K7L 3N6

The bathymetry of 3 lakes will be determined with a portable echo sounding device. The deepest part of each lake will be cored. Ice thickness and water quality will be monitored. Samples of modern sediments will be taken for comparisons with fossil material preserved in the cores.

Region: Baffin
Locations: Northwest shore of Pangnirtung Fiord, 20 km west of Pangnirtung Hamlet

File Number: 12 404 374

10031 (1990)
11116-R (1991)

Establishment of Lichens in Glacial Recession Zones

Diane Fahselt

Department of Plant Sciences
University of Western Ontario
London, Ontario N6A 5B7

Samples of all colonizing lichen species will be collected, identified and examined for apothecal and spore production. Photographic records will be taken. Samples of umbilicate lichens will be collected and later analyzed for genetic variability. Temperature gradients will be established and distances from first establishment to ice mass will be measured.

Region: Baffin
Locations: Isortoq River, near Barnes Ice Cap, North Central Baffin Island

File Number: 12 402 445

11088-D (1991)

Ethnozoological Investigations in Igloolik, N.W.T.

Vladimir Randa

18, rue Gustave Courbet
Bagneux, FRANCE F-92220

The Researcher will continue to investigate the ethnozoology of the Iglulik Inuit and to add to previously (1985, 1988) collected data. He will complete the identification of small terrestrial and water vertebrates and invertebrates and study the Inuit's knowledge and representations related to these animals. Information on zoological terminology will also be collected.

Region: Baffin
Locations: Igloolik, NWT

File Number: 12 410 177

10135-R (1990)

Evaluation of Community Based Tourism Development in Pangnirtung

Gwen Reimer

Department of Anthropology
McMaster University
1280 Main Street West
Hamilton, Ontario L8S 4L9

The Researcher will conduct an evaluation of community based tourism development in Pangnirtung over the period 1980 - 1990. The research will provide a basis for a Ph.D dissertation and an applied report on community-based tourism development for use by community members, government officials and the general public.

Region: Baffin
Locations: Pangnirtung

File Number: 12 410 273

11107-D (1991)

Evolution of High-Latitude Floras

James F. Basinger

Department of Geological Sciences
University of Saskatchewan
Saskatoon, Saskatchewan S7N 0W0

The Principle Investigator and his assistants will continue research on Axel Heiberg Island to study the evolution of plants which live in very high latitudes.

Region: Baffin
Locations: Axel Heiberg and Ellesmere Islands

File Number: 12 402 357

10094-R (1990)
11121-R (1991)

Exhibit Gallery on the Arctic

Carol Thiessen

Chief, Arctic Gallery
Canadian Museum of Nature
Box 3443, Station D
Ottawa, Ontario K1P 6P4

*** For Lab Use Only — Formal Research Not Conducted —***

Region: Baffin
Locations: Bathurst Island
File Number: 12 470 91

11202-L (1991)

Expedition Fiord: Sedimentary Environment Since the Ice Ages

Robert Gilbert

Department of Geography
Queen's University
Kingston, Ontario K7L 3N6

The researcher and his team will: measure the water flowing into the fiord and the water in the fiord; examine the sediments using an echo sounder that shows that water depths and the layers of sediment down to bedrock; photograph the sea floor; collect samples of the sea floor. Small animals (shells, worms etc) will be preserved for later study. Sediment samples will be studied in detail.

Region: Baffin
Locations: Expedition Fiord, Axel Heiberg Island
File Number: 12 404 115

10081 (1990)
11003-R (1991)

Experimental Plantings and the Establishment of a Research Transplant Garden

Susan Aiken

Botany Division
Canadian Museum of Nature
Box 3443, Station D
Ottawa, Ontario K1P 6P4

The Researcher will test some very standard agriculture seeds that have been developed in Alberta to determine whether they will grow in test plots in Iqaluit and Lake Harbour. She will also identify areas across the NWT which may be suitable as long term climatic change monitoring sites.

Region: Baffin
Locations: Iqaluit/Lake Harbour/Inuvik/Yellowknife, N.W.T.
File Number: 12 402 456

10100 (1990)

Fall Field Camp

Lin Maus

Environmental Technology Program
Arctic College
Box 600
Iqaluit, NWT X0A 0H0

First and Third Year Students enrolled in the Environmental Technology Program will participate in introductory field research training. This will include scientific collection techniques, and the development of collections available for public use and use in school.

Region: Baffin
Locations: Peterhead Inlet
File Number: 12 404 416

11188-L (1991)

Field Investigation of the Fossil Forest on Axel Heiberg Island

Ian MacNeil

Senior Planner, Terrestrial Studies
National Parks Branch
Environment Canada
Ottawa, Ontario K1A 1G2

The Researcher and his team will join other researchers already at the site to become familiar with the fossil forest site and the surrounding region. No sampling or removal of fossils will be undertaken by this field team.

Region: Baffin
Locations: Geodetic Hills, northeastern Axel Heiberg Island
File Number: 12 404 218

10184 (1990)

Field Sampling & Collecting of Tertiary Sediments for Plant Macro-Fossils

C.G. Gruchy

Assistant Director, Collections & Research
National Museum of Natural Sciences
National Museums of Canada
Ottawa, Ontario K1A 0M8

The Researcher and team will study the Geodetic Hills Locality. They will collect plant macrofossils to identify and classify the fossil pollen and to determine botanical affinities, deduce and describe the paleoecology and the paleoenvironment.

Region: Baffin
Locations: Geodetic Hills fossil forest locality, eastern Axel Heiberg Island

File Number: 12 412 030

10130 (1990)

Field Testing Killing Traps

Ken Seidel

P.O. Box 8330
Postal Station F
Edmonton Alberta T6H 5X2

Two trap lines consisting of 60 leghold traps and 60 of the experimental trap will be set in each of the two communities. A local and experienced trapper will be hired to assist in the project. A total of 200 animals, 100 from each community, 50 from each of the two different types of traps, will be taken. All Arctic fox caught will be purchased from the trapper and sent to Edmonton for examination.

Region: Inuvik
Locations: Holman Island and Sachs Harbour

10216 (1990)

File Number: 12 406 024

Fish Sampling Program

Stephen Harbicht

Area Habitat Management Biologist
Department of Fisheries and Oceans
Box 2310
Yellowknife, N.W.T. X1A 2P7

The Researcher and his assistants will set gill nets in Kam Lake, areas IV and V of Great Slave Lake and Yellowknife Bay to collect fish samples for analysis to determine baseline levels of heavy metals in fish tissues.

Region: Fort Smith
Locations: Kam Lake; Yellowknife Bay, areas IV & V of Great Slave Lake

File Number: 12 402 468

10200 (1990)

Fluvial Geomorphology and Glacial Geology

Thomas A. Black

Department of Geography
Campus Box 260
University of Colorado
Boulder, Colorado 80309

The Researcher and his assistant will paddle a route from Coppermine up the Rae River across the watershed and down the Hornaday River. They will examine the fluvial geomorphology and evidence of continental glaciation along this route.

Region: Kitikmeot
Locations: along the Rae and Hornaday Rivers

File Number: 12 404 395

10139 (1990)

Food Composition & Dietary Evaluation for Nutrients & Environ. Contaminants

Harriet V. Kuhnlein

School of Dietetics and Human Nutrition
MacDonald College of McGill University
21 - 111 Lakeshore Road
Ste. Anne de Bellevue, Quebec H9X 1C0

Dr. Kuhnlein and her team will study the foods in the traditional food system of the Dene people of Fort Good Hope/Colville Lake for their composition and patterns of use. Nutritional properties as well as toxicological properties will be assessed. Household and personal food use interviews previously collected will be analyzed using nutrient and toxicology data of food samples from the Dene area.

Region: Inuvik
Locations: Fort Good Hope and Colville Lake, N.W.T.

10061-R (1990)

File Number: 12 408 067

Formal Schooling & the Needs of a Canadian Indigenous Community

Anne Douglas

McGill University
Administration and Policy Studies in Education
3724 McTavish Street
Montreal, Quebec H3A 1Y2

The Researcher will investigate the ways in which members of the community of Arctic Bay interpret and manage their roles as formal school system policy-makers. Data will be collected to illustrate ways in which the community's culturally distinct values and practices remain intact and/or are modified during interaction with the school system.

Region: Baffin
Locations: Arctic Bay

File Number: 12 410 354

10061-R (1990)

Fossil and Modern Coleopteran Ecology in Arctic Canada

Alan Morgan

Department of Earth Sciences
University of Waterloo
Waterloo, Ontario N2L 3G1

The Researchers will collect sediment samples. Insect fossils will be extracted and analysed. The insect communities recovered will provide an indication of the climatic conditions in the area at the time the sediments were deposited. The age of the sediments will be determined with radiocarbon or other dating methods.

Region: Baffin
Locations: Truelove Lowland, Devon Island; Polar Bear Pass, Bathurst Island; Eureka and Tanquary Fiord, Ellesmere Island

File Number: 12 404 392

11174-R (1991)

Fossil Collection from Middle Devonian Rock Layers

Paul Johnston

Curator of Invertebrate Paleontology
Royal Tyrrell Museum of Paleontology
Box 7500
Drumheller, AB T0J 0Y0

Using maps and air photographs, the researchers will discover where to find specific layers of rock that may contain fossil remains of ancient sea life. Their search will focus on fossil clams, snails and also some of the earliest back-boned animals to appear on land.

Region: Baffin
Locations: Melville, Helena and Bathurst Islands

File Number: 12 412 029

11143-D (1991)

Fossil Plant DNA Sequences

Ben A. LePage

Department of Geological Sciences
University of Saskatchewan
Saskatoon, Saskatchewan S7N 0W0

The Researcher and his team will continue to sample fossil leaves of conifers and deciduous tree species preserved in the permafrost on Axel Heiberg Island. They will compare genes isolated from fossil trees to evaluate rates of evolution.

Region: Baffin
Locations: Axel Heiberg Island

File Number: 12 404 424

11096-N (1991)

Frontier, Homeland and Sacred Space: An Investigation of Cultural Perceptions

James Raffan

Box 243
Seeley's Bay, Ontario K0H 2N0

The Researcher will gather songs, stories and cultural perceptions to find out how landscape imposes meaning.

Region: Keewatin
Locations: Snowdrift, Baker Lake and the Thelon Game Sanctuary

File Number: 12 410 342

11002-N (1991)

Frost Heave in Lake Bottom Sediments

C.R. Burn

Department of Geography
University of British Columbia
Vancouver, B.C. V6T 1W5

The research team will monitor the amount of heave that occurs in lake-bottom sediments during winter, after water freezes to the bottom of lakes, because these environments are the best for examining the hydrology of frost heaving.

Region: Inuvik
Locations: Inuvik
File Number: 12 404 325

10011-R (1990)

Genetic Difference in Some N. At. Pop. - Barnacle Semibalanus balanoides L

Edwin Bourget

Professor
GIRQ, Department of Biology
Laval University
Ste-Foy, Quebec G1W 3V6

The Researcher will collect a few hundred barnacles from the shores near Iqaluit and examine their genetic background. The objective of the study is to test the hypothesis that the Greenland, Labrador and Gulf of St. Lawrence populations could be genetically close and very distinct from the North American populations south of Cabot Strait.

Region: Baffin
Locations: Iqaluit and vicinity
File Number: 12 402 497

11207-N (1991)

Genetic Diversity & Hybridization

Chris Wilson

Department of Zoology
University of Guelph
Guelph, Ontario N1G 2W1

The Researchers will continue to examine genetic diversity and hybridization between lake trout and Arctic char. They will gather data on the hybrid's ecological role. Different areas will be sampled to determine where the parent species and hybrids occur.

Region: Baffin
Locations: Sarcpa and Lailor Lakes, Melville Island
File Number: 12 402 374

11195-R (1991)

Genetic Stock Structuring/Pop. Dynamics of Mackenzie R. Broad Whitefish

J.D. Reist

Freshwater Institute
Department of Fisheries and Oceans
501 University Avenue
Winnipeg, Manitoba R3T 2N6

This work is a continuation of a 3 year FJMC funded study to determine genetic stock and structure of the broad whitefish population utilized by communities of the Mackenzie River basin.

Region: Inuvik
Locations: Mackenzie Delta
File Number: 12 402 499

11214-N (1991)

Genetic Variation and Population Structure in Boreal and Subarctic Mire Sedges

Marcia J. Waterway

Assistant Professor and
Curator, McGill University Herbarium
21,111 Lakeshore Road
St. Anne de Bellevue, Quebec H9X 1C0

The Researcher and her team will sample approximately twenty different species of sedges in a range of wetlands between Edmonton and Yellowknife. They will find out the range of conditions in which each species grows best and determine whether broad tolerance results from inherited variability or from the ability of individuals of each species to tolerate different conditions.

Region: Fort Smith
Locations: Ft. Smith, Yellowknife and Ft. Simpson
File Number: 12 402 462

10148 (1990)

Genetic Variation in Arctic Populations of Moss

David J. Innes

Department of Biology
Memorial University
St. John's, Newfoundland A1B 3X9

The Researcher will investigate the relative contribution of two processes (growth by adding new shoots from existing stems or new reproduction) for increasing the population size in a species of moss growing in the Iqaluit area.

Region: Baffin
Locations: Iqaluit, Baffin Island
File Number: 12 402 453

10095 (1990)

Geographical Knowledge of the Inuit of the Copper Eskimo Area

Beatrice Collignon

c/o Hamlet Council Office
Holman Island, NWT X0E 0S0

The Researcher will conduct a study to investigate Inuit geography, their geographical thoughts about the land, their perception of space, and the way they organize their knowledge of the land into an general explanation of the world around them. A place name survey will be carried out with the elders of each community. Younger adults will be asked to give the names they know to understand how the knowledge is changing.

Region: Kitikmeot
Locations: Coppermine, Cambridge Bay and Holman Island

11165-N (1991)

File Number: 12 410 370

Geological Investigations Along the Canadian Beaufort Sea Coast

Donald Forbes

Atlantic Geoscience Centre
Box 1006
Dartmouth, NS
B2Y 1B7

The team will gather information on coastal erosion rates, geotechnical properties of coastal sediments and on the geological processes occurring along this permafrost coast. Surveys will include lithology description, ice content estimates and sediment sampling of the cliff face. Beach profiles at sites along the Yukon coast and on the Tuktoyaktuk Peninsula will also be surveyed.

Region: Inuvik
Locations: Canadian Beaufort Coast

10155 (1990)

File Number: 12 404 399

Geological Study of the Origin of the Nastapoka Arc, East Coast of Hudson Bay

Paul Budkewitsch

Department of Geological Sciences
McGill University
3450 University Street
Montreal Quebec H3A 2A7

The Researcher will investigate the origin of the arcuate embayment from Cape Jones to Inujjuaq. The brittle fractures & faults in the bedrock surrounding the Nastapoka Arc will be examined from LANDSAT satellite imagery. Some features will be examined in the field to determine their origin & relationship to the tectonic events which produced the circular arc structure.

Region: Baffin
Locations: Eastern Coast of Hudson Bay

10131 (1990)

File Number: 12 404 394

Geology and Mineral Potential of the Camsell Lake Area, NWT

R.M. Johnstone

Energy Mines and Petroleum Resources
Government of the Northwest Territories
Box 1320
Yellowknife, NWT X1A 2L9

The Researcher will produce a geological map, scale 1:50,000, of the Camsell Lake area, and a report describing the geology and mineral potential of the map area.

Region: Kitikmeot
Locations: Camsell Lake
File Number: 12 404 380

11171-D (1991)

Geology and Structure of Prince Patrick and Adjacent Islands

Christopher Harrison

Institute of Sedimentary and Petroleum Geology
Geological Survey of Canada
3303 - 33rd Street NW
Calgary, AB T2L 2A7

11117-N (1991)

The Researcher will continue a project to define the nature of the solid earth that makes up the bedrock beneath the Arctic Islands. This involves the examination of existing maps and air-photographs, the identification of rock types in the field, the measurement of the orientation of rock layers and similar features with a surveyor's hand-held compass and the collection of small samples for additional laboratory study.

Region: Inuvik
Locations: Eglinton Island; Prince Patrick Island
File Number: 12 404 427

Geology of Cretaceous and Tertiary Strats, Bylot Island, Northwest Territories

Elliott Burden

Assistant Professor
Department of Earth Sciences
Memorial University of Newfoundland
St. John's, Newfoundland A1B 3X5

10118-R (1990)
11159-R (1991)

Dr. Burden and his associate will continue the study of the geology of Cretaceous and Tertiary rocks on Baffin and Bylot islands. They will collect oriented samples of shale and sandstone from cliffs measured and sampled for palynology 2 years ago.

Region: Baffin
Locations: Bylot Island, NWT
File Number: 12 404 246

Geology of Martin Frobisher's Gold Mines

D.D. Hogarth

Department of Geology
University of Ottawa
Ottawa, Ontario K1N 6N5

11171-D (1991)

The Researchers will map the geology at and near the Countess of Sussex mines and investigate the mining methodology used by Martin Frobisher circa 1577. These mines represent the first attempts to mine gold in Canada.

Region: Baffin
Locations: Mouth of Frobisher Bay, Baffin Island
File Number: 12 404 435

Geology of the Hope Bay and Elu Inlet Greenstone Belts

James Gebert

Energy Mines and Petroleum Resources
Government of the NWT
Box 1320
Yellowknife, NWT X1A 2L9

10079 (1990)

The Researcher will produce a map of the area showing rock types, geological structure and mineralization.

Region: Kitikmeot
Locations: Elu Inlet and Hope Bay Area
File Number: 12 404 381

Geology of the Nouveau Quebec Meteorite Crater

Michel Bouchard

Departement de Geologie
Universite de Montreal
CP 6128 Succ.A.
Montreal, Quebec H3C 3J7

11191-L (1991)

The Researchers will study the ejecta which is material formed as a result of the explosive impacting and throw out of rocks at the moment of meteorite impact. They will also investigate the pollen content of the glacial sediments trapped within the crater rim.

Region:
Locations: Nouveau Quebec
File Number: 12 470 91

Geology of the Squalus Lake Area

Michael Stubley

Energy, Mines and Petroleum Resources
Government of the Northwest Territories
Box 1320
Yellowknife, NWT X1A 2L9

The geological research team will examine, document and sample surface outcrops in the study area. This information will be recorded on a map which will assist to identify mineral resources and the existence of precious or base metal deposits.

Region: Fort Smith
Locations: Squalus Lake area, 170 NE of Yellowknife
File Number: 12 404 382

11182-D (1991)

Geology of Takijuq Greenstone Belt

James Gebert

Energy Mines and Petroleum Resources
Government of the NWT
Box 1320
Yellowknife, NWT X1A 2L9

The Researchers will carry out geological bedrock mapping of a portion of an ancient volcanic belt. The purpose of the project is to produce a 1:15,000 scale geology map of the study area.

Region: Kitikmeot
Locations: Takijuq Lake
File Number: 12 404 381

11156-R (1991)

Geology of the Torp Lake Belt, Lower Hood-James River Project

Robert Johnstone

MDA
Energy Mines & Petroleum Resources
Government of the N.W.T. Box 1320
Yellowknife, N.W.T. X1A 2L9

The Researcher and his assistant will conduct daily foot traverses out of a tent camp visiting bedrock exposures and recording lithological, structural and mineralogical information. Hand specimens will be taken to Yellowknife for lithological and geochemical analysis.

Region: Kitikmeot
Locations: Arctic Sound - James River Area, District of Franklin
File Number: 12 404 380

10078 (1990)

Geomorphic Investigation of the White and Thompson Terminal Moraine Areas

Wayne H. Pollard

Department of Geography
Memorial University of Newfoundland
St. John's, Newfoundland A1B 3X9

The study will involve the mapping of the terminal moraine system of the White and Thompson Glaciers, the sampling and analyses of sediment, ice and water and the monitoring of a series of study sites.

Region: Baffin
Locations: Expedition Fiord, NWT
File Number: 12 404 321

10105 (1990)

Geomorphological Research on Valley Formation and Hydrology

Ekkehard Schunke

Geographisches Institut
der Universitat Gottingen
3400 Gottingen, den
Goldschmidtstrabe 5 West Germany

Dr. Schunke and his assistant will collect measurements and observations of surface forms and surface processes, soils, permafrost and hydrology.

Region: Inuvik
Locations: Richardson Mountains, N.W.T.
File Number: 12 404 189

10017 (1990)

Geomorphology of Ward Hunt Island and Ice Shelf

Lorenz King

University of Giessen
D-6300 Giessen, West Germany

Dr. King and his team will measure the snow distribution at the end of the winter in order to obtain an indication of the run-off during summer and of the mass balance on the ice shelf.

Region: Baffin
Locations: Ward Hunt Island, N.W.T.
File Number: 12 404 332

10044 (1990)

George Lake Fish Study

Aaron D. Sekerak

Applied Environmental Services
Box 1148
Yellowknife, NWT X1A 2P8

The Researcher and his assistant will obtain preliminary information on fish in the area so that potential impacts of mining in the region can be assessed if necessary.

Region: Kitikmeot
Locations: George Lake
File Number: 12 402 465

10169 (1990)

Geoscientific Research - Bylot and Adjacent Baffin Islands, 1991

William W. Shilts

Senior Quaternary Scientist
Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

The Researchers will investigate the nature of the basal debris load of Aktineq Glacier. The area around Aktineq Glacier as well as glaciers and glaciated terrain within 30 km of Pond Inlet will be visited to plan for future university-based research.

Region: Inuvik
Locations: Bylot and Adjacent Baffin Islands
File Number: 12 404 437

11184-N (1991)

Geoscientific Research, July 1990, Bylot Island, NWT

Michel A. Bouchard

Departement de Geologie
Universite de Montreal
CP 6128I, succursale A
Montreal, Quebec H3C 3J7

The Researcher and his assistant will sample and study the modern glacial debris from the snout of two glaciers on the south side of Bylot Island. This study has no biological component and will not involve sampling the fauna or the flora.

Region: Baffin
Locations: Bylot Island, NWT
File Number: 12 404 390

10123 (1990)

Geotechnical Investigation Using Ground Probing Radar Surveys

Jennifer Kasper

c/o Iqaluit Research Centre
Box 1198
Iqaluit, NWT X0A 0T0

The Researcher and team will continue to conduct ground penetrating radar (GPR) surveys to provide two dimensional stratigraphic and structural geotechnical information. *** Research Project undertaken in Salluit, northern Quebec. Scientific Research Licence issued to enable researcher to obtain support at the Iqaluit Research Centre.

Region: Quebec
Locations: Salluit, northern Quebec
File Number: 12 404 423

11080-L (1991)

Glaciation and the Evolution of the Canadian High Arctic

John England

Department of Geography -
University of Alberta
Edmonton, Alberta T6G 2E9

Dr. England is continuing a fifteen year study on past glaciations, sea level fluctuations and paleoenvironmental change in the Canadian High Arctic. His work will involve surveying, mapping and collecting samples for radiocarbon dating.

Region: Baffin
Locations: Fosheim Peninsula, Ellesmere Island
File Number: 12 404 319

10177-R (1990)

Glacier Mapping, Axel Heiberg Island

G.J. Young

Department of Geography
Wilfrid Laurier University
Waterloo, Ontario N2L 3C5

Dr. Young and his research team will remap the White Glacier, calculate volumetric change since 1960 and calibrate the annual mass balance record.

Region: Baffin
Locations: Expedition Fiord, Axel Heiberg Island
File Number: 12 404 357

11011 (1991)

Government Policies Toward the Inuit of Siberia and the NWT Since 1900

Mary Ann Van Meenen

470 Laurier Avenue West
Apartment 706
Ottawa, Ontario K1R 7W9

The Researchers will conduct an historical examination of the policies of the Canadian and Soviet governments toward the Inuit, the similarities and differences of their approaches and the impact upon the Inuit.

Region: Kitikmeot
Locations: Coppermine
File Number: 12 410 337

11175-N (1991)

Grade Twelve Native Students in a Northwest Territories High School

Arlene E. Johns

#1008 - 4944 Dalton Drive NW
Calgary, AB T3A 2E6

Upon consent, students, their parents, school counsellors and principal will participate in a case study to examine how some Native students in a small high school adjust and cope successfully while many of their peers reject the school system.

Region: Fort Smith
Locations: Diamond Jenness School, Hay River
File Number: 12 410 372

11172-N (1991)

Gradient Analysis of High Arctic Sedge Meadows

Gregory Henry

Department of Geography
University of Alberta
Edmonton, Alberta T6G 2H4

The Researcher and his team will work at four sites across central Ellesmere Island. They will establish automatic climate stations at each site and take measurements of the soils and vegetation.

Region: Baffin
Locations: Central Ellesmere Island
File Number: 12 402 421

10092 (1990)
11168-R (1991)

Granulites of Northern Churchill

Mikkel Schau

Geological Survey of Canada
Room 461
588 Booth Street
Ottawa, ON
K1A 0E8

The Researcher and his assistant will carry out a pilot project using digital computer technology to facilitate geological mapping in an isolated area.

Region: Baffin
Locations: Coats Island

File Number: 12 404 402

10164 (1990)

Grasses of the N.W.T.

Susan Aiken

Botany Division
Canadian Museum of Nature
Box 3443, Station D
Ottawa, Ontario K1P 6P4

The Researcher will collect 18-36 living plants from a 1 km area collection site. Approximately 30 populations will be collected and taken to Ottawa for analysis.

Region: Baffin
Locations: Iqaluit; Resolute; Islands north of Cornwallis

File Number: 12 402 392

11068-R (1991)

Ground Ice Development in Sediments of the Mackenzie Delta Area

C.R. Burn

Department of Geography
University of British Columbia
Vancouver, B.C. V6T 1W5

The Researcher and his team will continue to examine the hydrology of frost heave in the environment of a lake bottom. They will also conduct their study in land environments in the outer Delta and examine the distribution of ice in the upper layers of permafrost.

Region: Inuvik
Locations: Mackenzie Delta, near Inuvik and Northern Richards Island

File Number: 12 404 235

11041-R (1991)

Ground Penetrating Radar to Assess Subsurface Sediments

Derald G. Smith

Department of Geography
University of Calgary
Calgary, Alberta T2N 1N4

The Team will determine if ground penetrating radar is feasible to assess different sediment layers buried beneath the surface of the lower part of the Slave River Delta. It does not involve seismic (explosives) nor radiation.

Region: Fort Smith
Locations: Slave River Delta near Ft. Resolution

File Number: 12 404 274

10204 (1990)
11095-R (1991)

Ground Water Hydrology and Chemistry in High Arctic Water Shed

Mike English

Department of Geography
Wilfred Laurier University
75 University Avenue W
Waterloo, Ontario N2L 3C5

Dr. English and his team from Wilfred Laurier University will conduct fieldwork in surface and groundwater hydrology. Their objective is to understand changes in groundwater chemistry and hydrology as the active layer increases in depth.

Region: Baffin
Locations: Expedition Fiord, Axel Heiberg Island

File Number: 12 404 425

11105-N (1991)

Growth and Survival in Black Brant Goslings

Terry Armstrong

Department of Zoology
University of Alberta
Edmonton, Alberta T6G 2E9

Numbers of Brant are low relative to other Arctic geese. This research will determine the number of pairs breeding in the colony, their nesting success and brood survival rates to increase the information needed for the Arctic Goose Joint Venture of the North American Waterfowl Management Plan.

Region: Inuvik
Locations: Anderson River Delta

File Number: 12 402 484

11065-N (1991)

Hazardous Wastes

G.W. Heinke

Dean, Faculty of Applied Science & Engineering
University of Toronto
35 St. George Street
Toronto, Ontario M5S 1A4

In co-operation with the Department of Municipal and Community Affairs, the researcher will conduct a random sampling of garbage generated in the selected communities to establish their composition. A questionnaire will be used to gather a hazardous waste inventory. A detailed plan for the design and cost estimate of a co-disposal facility will be undertaken.

Region: Inuvik
Locations: Inuvik Region: Aklavik, Arctic Red River; Ft. MacPherson; Tuktoyaktuk, Inuvik

File Number: 12 408 038

11141-D (1991)

Health Committee Survey

Lloyd Norn

Fort Resolution, N.W.T. X0E 0M0

Mr. Norn will conduct interviews with Elders in the community by means of a questionnaire to extract information regarding use of presciption medication in the community of Fort Resolution.

Region: Fort Smith
Locations: Ft. Resolution, N.W.T.

File Number: 12 408 079

10040 (1990)

High-Arctic Periglacial Processes and Related Quaternary History

A.L. Washburn

Professor Emeritus
Quaternary Research Centre AK-60
University of Washington
Seattle, Washington, USA 98195

Dr. Washburn and his team will continue the investigation into how the landscape has changed since the glaciers left 10,000 years ago. In particular, he is looking at how the effects of frost and permafrost have influenced the changes.

Region: Baffin
Locations: Resolute Bay Area

File Number: 12 404 169

10075-R (1990)
11147-R (1991)

High-resolution Holocene Climatic Reconstructions

Jonathan Overpeck

Lamont-Doherty Geological Observatory of Columbia University
Palisades, NY, USA 10964

The Researcher and his team will collect samples of mud from the bottom of several undisturbed lakes on southern Baffin Island. The samples will then be studied to examine chemistry, texture and fossils.

Region: Baffin
Locations: Ogac Lake near Iqaluit; unnamed lakes near Lake Harbour; unnamed lake on southern Beekman Peninsula

File Number: 12 404 348

11037-R (1991)

Holocene Bowhead Whale Skeletal Morphometrics and Taphonomy

James M. Savelle

Department of Anthropology
McGill University
855 Sherbrooke Street W.
Montreal, Quebec H3A 2T7

The Researcher will record and measure whale bones from naturally stranded bowhead whales. The information will be used to assist in determining the effects of climatic change on bowhead whale populations over the last 10,500 years.

Region: Baffin
Locations: West Side of Brodeur Peninsula, Baffin Island
File Number: 12 404 385

10146 (1990)

Holocene Paleoecology of the Central Canadian Arctic Islands

Konrad Gajewski

Centre d'etudes nordiques
Universite Laval
Ste-Foy, Quebec G1K 7P4

The Researcher will collect lake sediment cores from Somerset Island and northwest Cornwallis Island. The pollen and sediment characteristics will be analyzed in a laboratory to reconstruct the vegetation and climate history of the past 8000-9000 years of these regions.

Region: Baffin
Locations: Somerset and Cornwallis Islands
File Number: 12 404 422

11148-N (1991)

Humane Marten Trap Testing

Gilbert Proulx

Alberta Research Council
Box 8330
Postal Station F
Edmonton, Alberta T6H 5X2

To determine the effectiveness of the Kania marten trap an actual trapline consisting of 50 to 60 Kania traps and 50 to 60 of the trapping devices commonly used by trappers will be placed in the Fort Norman area. George Pellissy, local resident and experienced trapper, will assist the researchers with this project.

Region: Inuvik
Locations: Little Bear River and the Fort Norman area
File Number: 12 406 025

10219 (1990)

Hydrogeologic Investigations of Carbon Dioxide Rich Groundwaters

Stewart M. Hamilton

Department of Earth Sciences
Carleton University
1 Colonel By Drive
Ottawa, Ontario K1S 5B6

The team will investigate the hydrogeology, hydrogeochemistry and geology of the region and attempt to determine the cause and extent of carbon dioxide rich springs in the Flat River Valley region. They will also determine if a fault exists in the valley and if the springs delineate an active seismic zone.

Region: Fort Smith
Locations: Flat River Valley SE of Tungsten
File Number: 12 404 400

10161 (1990)

Hydrogeology and Deposition of the Rabbitkettle Hotsprings and Tufa Mounds

Angela Gulley

1204 - 1375 Prince of Wales Drive
Ottawa, Ontario K2C 3L5

The Researcher will: map the local geology adjacent to the hotsprings; conduct a geochemical analysis of the springwaters; monitor the physical properties (pH, temp.); calculate natural discharge rates, conduct a pumping test and monitor depositional rates of tufa accumulations.

Region: Fort Smith
Locations: Rabbitkettle, Nahanni National Park
File Number: 12 404 410

11023-N (1991)

Hydrology of Snow-filled Arctic Stream Valleys

Richard Heron

Department of Geography -
University of Windsor
Windsor, Ontario N9B 3P4

Dr. Heron and his assistant will install monitoring devices in snowdrifts which block stream channels. This study will examine these snowdrifts and the way in which they break, since rapid thawing may cause flooding downstream. This project is a continuation of work begun in 1989.

Region: Baffin
Locations: McMaster River and Small Lake near Resolute Bay

File Number: 12 404 352

10084-R (1990)

Ice Core Analysis and Glacier Mass Balance

Roy M. Koerner

Terrain Sciences Division
Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

The Researcher and his team will continue to gather information to understand the past climate in the high Arctic. They will also determine the present climatic trends and pollution levels in the snow.

Region: Baffin
Locations: Queen Elizabeth Islands

File Number: 12 404 417

11044 (1991)

Ice Flow and Microclimate Survey at Agassiz Ice Cap, Ellesmere Island

Edwin D. Waddington

Geophysics Program AK-50
University of Washington
Seattle, Washington, USA 98195

The Researcher will survey the positions of ice markers used to track the ice motion. A radio-echo sounder will be used to measure the thickness of the glacier ice over the area of interest. This project is in association with the Geological Survey of Canada and Dr. R.M. Koerner who is studying ice cores from the site for climate change indicators.

Region: Baffin
Locations: Agassizz Ice Cap

File Number: 12 404 420

11056-N (1991)

Ice Island Seismic Refraction

D.A. Forsyth

Continental Geoscience Division
1 Observatory Crescent
Building No. 7
Ottawa, Ontario K1A 0Y3

The Researcher will study rocks making up the top 40 km of the earth on the polar margin northeast of Ellef Ringnes Island. The seismic refraction survey will measure the speed of sound waves through the rocks.

Region: Baffin
Locations: Ice Island, N.W.T.

File Number: 12 404 283

10002 (1990)

Ice Thickness Topography Study - Beaufort Sea

Humfrey Melling

Ocean Physics Division
Institute of Ocean Sciences
P.O. Box 6000, 9860 West Saanich Road
Sidney, B.C. V8L 4B2

Sonar instruments will be deployed from the ice cover at two locations on the continental shelf north and east of Tuktoyaktuk. They will operate on the seafloor until recovery in August. The survey of seawater properties will be conducted at selected sites throughout the offshore.

Region: Inuvik
Locations: Beaufort Sea

File Number: 12 404 248

11012 (1991)
10036 (1990)

Identification of Adolescent Problems and Methods of Help-Seeking

Caroline Thompson

Box 1330
Iqaluit, N.W.T. X0A 0H0

Ms. Thompson will use a questionnaire translated into English and Inuktitut, which asks youths 13-15 and 18-20 to identify their three most pressing problems, coping strategies and the characteristics of adults they would turn to for help.

Region: Baffin
Locations: Baffin Island

File Number: 12 410 313

10064 (1990)
11008-R (1991)

Igloolik Oral History Project

George Qulaut

Igloolik Research Centre
Igloolik, NWT X0A 0L0

In-depth audiotaped interviews are conducted with selected Iglulingmiut elders on a wide range of topics including: life-histories, wildlife biology, hunting techniques, sewing methods, skin preparation, diet, education, philosophy, astronomy, climatology, treatment of illness and folk-lore. The tapes are transcribed, translated, word-processed and edited.

Region: Baffin
Locations: Igloolik

File Number: 12 410 347

11036-N (1991)

Impact and Effects of Non-Native Teachers on Native Students in the North

Shelley Strong

Champlain College
Trent University
Peterborough, Ontario K9J 7B8

The Researcher will investigate education in the urban culturally diverse setting of Yellowknife and compare it to the isolated predominantly Native community of Snowdrift. The relationship between teacher and student will be studied. Course curriculum and teaching methods will be examined to determine if they are relevant to native culture. Community residents will be contacted to discuss the education of children.

Region: Fort Smith
Locations: Yellowknife and Snowdrift

File Number: 12 410 357

11099-N (1991)

Impact and Source of Increased Cost of Living in the District of Keewatin

Wallace G. du Temple

General Delivery
Chesterfield Inlet, N.W.T. X0C 0B0

The Researcher will conduct a food cost survey at the two local stores, assess the impact of increased postal costs for food parcels, assess the impact of increased freight costs and discuss these findings with the community members.

Region: Keewatin
Locations: Chesterfield Inlet, N.W.T.

File Number: 12 410 307

10030 (1990)

Impact of Climate Change on Earth Surface Processes

Antoni G. Lewkowicz

Department of Geography
Erindale Campus
University of Toronto
Mississauga, Ontario L5L 1C6

The Researcher and his team will continue to study the activity of geomorphic processes such as bedrock weathering, active-layer detachment, solifluction and thaw slumping. The aim of the research is to link these processes to climatic variables so that predictions can be made about the possible impact of any climatic change.

Region: Baffin
Locations: Fosheim Peninsula, Ellesmere Island within a 50 km radius of Eureka

File Number: 12 404 153

10124-R (1990)
11173-R (1991)

Incident Ultraviolet (UV) Light at High Latitudes

Graeme Magor

9445 Twenty Rd
R.R. #1
Mount Hope, Ontario L0R 1W0

The research team will carry out observational measurements of UV light reaching high latitudes of Ellesmere Island during the arctic spring.

Region: Baffin
Locations: Ellesmere Island

File Number: 12 404 375

10037 (1990)

Indigenous Based Land Use and Occupancy Information

Robert Kumprey

School of Applied Geography
Ryerson Polytechnical Institute
350 Victoria Street
Toronto, Ontario M5B 2K3

The Researcher and his associate will conduct interviews with public officials, both from government departments and non government organizations. They will compile a bibliography of sources of indigenous land use and occupancy information to show where this information is being used and for what purpose.

Region: Fort Smith
Locations: Yellowknife

File Number: 12 410 327

10180 (1990)

Indin Lake Project

John Morgan

MDA
c/o Energy Mines & Petroleum Resources
Box 1320
Yellowknife, N.W.T. X1A 2L9

Mr. Morgan will produce maps showing the location and characteristics of economic mineral occurences and objects such as drill holes and trenches. These will be cross-indexed to published reports on economic geology.

Region: Fort Smith
Locations: Indin Lake/Spider Lake

File Number: 12 404 379

10074 (1990)

Influence of Education on the Perceived Quality of Life in Iqaluit

Sheila Barton

242 Hunter Street West
Apartment #2
Peterborough, Ontario K9H 2L3

The Researcher will make an assessment of the quality of life in Iqaluit. Analyses of formal and informal education will be conducted using surveys and interviews. The objectives of the research are to find a relationship between education and the quality of life and to assess how education levels influence the perceived quality of life.

Region: Baffin
Locations: Iqaluit

File Number: 12 410 352

11063-N (1991)

Influence of Stream Discharge on the Distribution of Sea Ice

Ken Dean

Geophysical Institute
University of Alaska - Fairbanks
99775-0800
Fairbanks, Alaska

Satellite imagery, hydrologic data and field measurements will be used to develop a computer model of the thawing of sea ice and freezing of water in this area. The investigators will drill a hole through the ice and measure water temperature, salinity and turbidity.

Region: Inuvik
Locations: Mackenzie River Delta - Offshore

File Number: 12 404 386

10106 (1990)
11007-R (1991)

Integrated Natural Resource Management - A Question of Property Rights?

Monika Rohlmann

York University
Faculty of Environmental Studies
4700 Keele Street
North York, Ontario M3J 1P3

The Researcher will examine the property regime established under the Inuvialuit Regional Settlement Act. Informal field observations, literature and file reviews and informal discussions with key persons will be carried out.

Region: Inuvik
Locations: Inuvik, Tuktoyaktuk and Norman Wells
File Number: 12 410 359

11101-N (1991)

Inter-relationships Between Internally Feeding Insects and Species Pedicularis

Sharon Meier

Department of Biology
Laurentian University
Sudbury, Ontario P3E 2C6

Ms. Meier and her assistant will study plant-insect relationships and factors which play determining roles in the lives of organisms inhabiting the Arctic environment.

Region: Baffin
Locations: Princess Marie Bay
File Number: 12 402 447

10058 (1990)
11127-R (1991)

Internal Structural Variability, Properties & Growth History of Multiyear Sea Ice

Martin O. Jeffries

Geophysical Institute
University of Alaska, Fairbanks
Fairbanks, Alaska
99775-0800

Using a camp on the Arctic Ocean Dr. Jeffries and his research assistant will collect sea ice core samples and conduct a program of analysis. The sea ice in the region the samples will be taken represents some of the oldest, thickest and slowest- moving in the Arctic Ocean.

Region: Baffin
Locations: Arctic Ocean, 86 degrees North, 89 degrees West
File Number: 12 404 369

10001 (1990)

International Cryosol Tour

Charles Tarnocai

Land Resource Research Centre
K.W. Neatby Building
Ottawa, Ontario K1A 0C6

This tour and the associated meetings will focus on the genesis, classification and management of permafrost soils (Cryosols) and the possible effect of climate change on these soils.

Region: Inuvik
Locations: Inuvik area
File Number: 12 402 301

11185-D (1991)

Interspecific Hybridization Between Arctic Char and Lake Trout

Chris C. Wilson

Department of Biological Science
University of Windsor
Windsor, Ontario N9B 3P4

Fish will be caught using both gill nets and fishing tackle. The Researcher will use the same collecting and sampling procedures that were used last year at Sarcpa, Lailor and Hall lakes. A maximum of 25 fish per species will be killed to obtain liver, kidney and muscle tissue to enable analyses. The fish bodies will be given to the local communities as before.

Region: Baffin
Locations: lakes near Pelly Bay, Spence Bay, Gjoa Haven, Coral Harbour and the Upper Melville Peninsula
File Number: 12 402 463

10157 (1990)

Inuit Astronomy and Cosmology

John MacDonald

Igloolik Research Centre
Igloolik, NWT X0A 0L0

The Researcher will gather information from Igloolik Inuit elders on Arctic celestial and atmospheric phenomena including associated terminologies, mythologies and legends. Inuit star and constellation names will be linked to their European equivalents. An examination of the Inuit lunar calendar and the role of stars in the determination of seasonal time will also be undertaken.

Region: Baffin
Locations: Igloolik

11035-N (1991)

File Number: 12 410 346

Inuit Clothing: A Study in the Transformation of Culture

Bernadette Driscoll

3020 Porter Street, N.W. # 102
Washington, D.C. 20008

The researcher will examine indigenous clothing design and clothing change in the Kitikmeot Region; will record the historical change from fur to fabric clothing as well as investigate the continuing importance of fur clothing to hunters. The social and economic significance of maintaining sewing skills within Inuit families will also be investigated.

Region: Kitikmeot
Locations: Holman, N.W.T.

10085 (1990)
11072-R (1991)

File Number: 12 410 318

Inuit Decision-making in the Setting of the Boundaries for North Baffin Park

Debora Vannijnatten

#211 MacDonnell Street
Kingston, Ontario K7L 4C1

The Researcher will investigate the degree to which the Inuit communities of Arctic Bay and Pond Inlet were involved in the decision making process to set the boundaries for North Baffin Park. She will also examine how concerns are expressed in Inuit community involvement in these processes.

Region: Baffin
Locations: Iqaluit, Pond Inlet and Arctic Bay

File Number: 12 410 361

11109-N (1991)

Inuit Diets and Organic and Metal Contaminants

Michael Weis

Department of Biological Sciences
Great Lakes Institute
University of Windsor
Windsor, Ontario N9B 3P4

Through interviews and diet diaries, the patterns of consumption of country foods and commercially prepared foods will be assessed in seasons throughout the year. This continuing study will assess the nutritional quality of the diet and will quantify the dietary intake of contaminants.

Region: Baffin
Locations: Sanikiluaq

File Number: 12 402 375

11186-R (1991)

Inuit Dog

Ken MacRury

Scott Polar Research Institute
Lensfield Road
Cambridge, England CB2 2AL

To determine the accuracy of present Canadian Kennel Club breed standards for the Canadian Eskimo Dog, a selection of working dogs will be weighed and measured.

Region: Baffin
Locations: Iqaluit, Pangnirtung and Igloolik

File Number: 12 402 479

11033-N (1991)

Inuit Gender System

Bernard Saladin d'Anglure

Department of Anthropology
Laval University
Quebec City, Quebec

Saladin d'Anglure and his team will gather information as part of a continuing research project in Igloolik focusing on a historical view on the sexual division of labor and the social categories of sex.

Region: Baffin
Locations: Igloolik, NWT
File Number: 12 410 209

10052-R (1990)

Inuit Geographical Names in the Keewatin

Ludger Muller-Wille

Department of Geography
McGill University
805 rue Sherbrooke Ouest
Montreal, Quebec H3A 2K6

Dr. Muller-Wille and his team will continue to interview people in some Keewatin communities to record the oral history of the original names given to their communities. They will also train northern assistants to continue this work throughout the Keewatin.

Region: Keewatin
Locations: Keewatin Region
File Number: 12 410 161

10043-R (1990)
11057-R (1991)

Inuit Music Then and Now

Philippe Le Goff

45 rue Blanche
75009 Paris, France

The Researcher will observe Inuit musical history, both traditional and that which has been influenced by southern music and adapted in an Inuit way.

Region: Baffin
Locations: Baffin Island
File Number: 12 410 349

11047-N (1991)

Iqaluit Sewer Pipe Collapse Problems

Allan Hanna

Hardy BBT
P.O. Box 2245
Yellowknife, NWT X1A 2P7

Instruments will be installed along suspected problem areas during construction, and monitoring will take place during freezeback. The information gathered will be utilized to make recommendations for future material selection and construction designs.

Region: Baffin
Locations: Iqaluit
File Number: 12 404 410

10212 (1990)
11021-R (1991)

Isotope Hydrology and Geochemistry Studies, Manners Creek Basin, N.W.T.

Thomas W.D. Edwards

Department of Earth Sciences
Faculty of Science
University of Waterloo
Waterloo, Ontario N2L 3G1

The Researcher and his assistant will collect samples of snow, rain, stream water, pond water and ground water from undisturbed sites in the Manners Creek Basin. Measurements of naturally occurring chemicals and isotopes in surface and subsurface waters will be used to study the movement and mixing of waters in a boreal watershed in the zone of continuous permafrost.

Region: Fort Smith
Locations: Manners Creek, NWT
File Number: 12 404 345

10172 (1990)

Keewatin Health Needs and Health Status Assessment

Michael Moffatt

J.A. Hildes Northern Medical Unit
University of Manitoba
S100, 750 Bannatyne Avenue
Winnipeg, Manitoba R3E 0W3

Dr. Moffatt and his colleagues will assess the health status and health needs of the Keewatin Region. A five stage study will be undertaken and includes: Health Indicators Summary, Key Informant Interviews, Sociodemographic Household Survey, Review and Summary of existing sources of economic, social and educational data, and a Survey of a random sample of individuals.

Region: Keewatin
Locations: Keewatin Region and Sanikiluaq

10016 (1990)

File Number: 12 408 072

Large Aperture Coherence Experiment

John B. Morris

RADC/EECP
Hanscom, AFB
Massachusetts, U.S.A.
01731-5000

A radio signal will be transmitted from Yellowknife, to Los Banos, CA, U.S.A. at three selected periods throughout the year. The signal reflects from the ionosphere, and in doing so, experiences distortion. The severity of the distortion must be evaluated at different times of the day as well as different times of the year. This information will predict the utility of high frequency antennas up to 10 km in length.

Region: Fort Smith
Locations: Royal Canadian Mounted Police Field Site, Yellowknife, N.W.T.

10027-R (1990)

File Number: 12 404 368

Larium: Safety Monitoring Study

Richard Nuttall

Medical Health Officer
Department of Health
Box 520
Yellowknife, NWT X1A 2N4

The Larium Safety Monitoring Study is organized by the Laboratory Centre for Disease Control of Health and Welfare Canada. Each traveller to malarian regions is required to report any adverse reaction and any symptoms of malaria on his/her return to Canada. The study is limited to a five year period with an interim three year review point.

Region: Fort Smith
Locations: Yellowknife

File Number: 12 408 084

11014 (1991)

Late Quaternary Dynamics of the Labrador/Foxe Sectors

Gifford Miller

Centre for Geochronological Research
INSTAAR, University of Colorado
Boulder, CO, 80309-0450, USA

The Research teams will continue to gather information to understand past glacial activity and sea level change in the eastern Canadian Arctic. They will take core samples from selected lakes and will record environmental change preserved in the lake sediments.

Region: Baffin
Locations: SE Baffin Island around Lake Harbour and Brevoort Island and Frobisher Bay

11019-R (1991)

File Number: 12 404 043

Late Quaternary Dynamics/Ocean Interaction in the North Atlantic

Gifford Miller

Associate Professor
Centre for Geochronological Research
INSTAAR, University of Colorado
Boulder, CO, U.S.A. 80309

The Researcher and his team will conduct a study which relates to past glacial activity and sea level change in the eastern Canadian Arctic. The studies will concentrate on evidence for the direction and timing of ice movement in Frobisher Bay and on the adjacent Baffin Shelf.

Region: Baffin
Locations: Hall Peninsula, eastern Baffin Island

File Number: 12 404 357

10134-R (1990)

Late Silurian Plant Macrofossils from Cornwallis Island

Michael Melchin

Department of Earth Sciences
Waterloo, Ontario N2L 3G1

The work will involve the collection of plant fossils as well as samples of other macroscopic and microscopic fossils to verify the age and depositional environment. Notes and photographs will be taken describing the samples and the section. Less than 10 other localities around the world have been found to yield plant fossils of Late Silurian Age or older.

Region: Baffin
Locations: Northeastern Cornwallis Island
File Number: 12 404 223

11087-R (1991)

Late Wisconsin (Late Foxe) Glacial Extent

P. Thompson Davis

Department of Natural Sciences
Bentley College
175 Forest Street
Waltham, MA, USA 01075475

The Researcher and his team will map and survey glacial abrasion limits, collect, describe and analyze soil samples from the Pangnirtung Pass and Pangnirtung Fiord areas to determine the direction and vertical extent of ice flow.

Region: Baffin
Locations: Pangnirtung Fiord and Pangnirtung Pass area southern Cumberland Peninsula, N.W.T.
File Number: 12 404 055

10089 (1990)

11074-R (1991)

Limnology and Paleoecology of Arctic Lakes

John P. Smol

Department of Biology
Queen's University
Kingston, Ontario K7L 3N6

The research team will sample approximately 20 lakes located within a 100 km radius of Tuktoyaktuk and within the immediate vicinity of Inuvik. At each lake they will analyze the water for major environmental variables and remove some of the lake mud for future analysis of algal remains.

Region: Inuvik
Locations: Inuvik and Tuktoyaktuk
File Number: 12 402 460

10142 (1990)

Limnology and Paleoecology of Arctic Lakes

John P. Smol

Department of Biology
Queen's University
Kingston, Ontario K7L 3N6

The Researchers will collect water samples from lakes and ponds to assess the present water quality. Lake and pond mud samples will also be taken to identify algal indications of lake quality.

Region: Baffin
Locations: Belcher Islands and Yellowknife area
File Number: 12 402 460

11199-R (1991)

Limnology of Lake Hazen: Fish, Atmospheric Pollution and Climate History

Gregg Brunskill

Department of Fisheries and Oceans
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba R3T 2N6

Sediment samples from Hazen Lake will help scientist understand the global movement of airborn pollutants. In addition, various species of the Lake Hazen biomass will be collected and analyzed to determine if atmospheric pollutants are present.

Region: Baffin
Locations: Lake Hazen, Ellesmere Island National Park Reserve
File Number: 12 402 473

10220 (1990)

Literacy in Igloolik

Perry Sherwood

123 Woodbine Ave
Toronto, Ontario M4L 3V8

The Researcher will conduct interviews and ask people what they use reading and writing for.

Region: Baffin
Locations: Igloolik, N.W.T.

File Number: 12 410 312

10062 (1990)

Loss of the James Knight Arctic Expedition (1719-21)

Owen Beattie

Department of Anthropology
The University of Alberta
Edmonton, Alberta T6G 2H4

Professor Beattie and his team will continue work begun in 1989. They will continue to locate and evaluate sites on the Marble Island group associated with the James Knight expedition of 1719-21.

Region: Keewatin
Locations: Marble Island/Quartzite Island, NW Hudson Bay

File Number: 12 404 225

10190-R (1990)

11164-R (1991)

Mackenzie Delta Hydrology and Ecosystem Interactions

Phillip Marsh

National Hydrology Research Institute
11 Innovation Blvd
Saskatoon, Saskatchewan S7N 3H5

The research will study changes in the water levels of a variety of lakes in the Mackenzie Delta. Investigations will include consideration of factors controlling the lake levels, introduction of floodwater from the Mackenzie River, rainfall onto the lake, snowmelt runoff into the lakes and evaporation from the lakes.

Region: Inuvik
Locations: Inuvik Region

File Number: 12 404 378

11125-R (1991)

Mackenzie Mountains Palaeontological Expedition 1990

Mark V.H. Wilson

Department of Zoology
Biological Sciences Centre
University of Alberta
Edmonton, Alberta T6G 2E9

The Researchers will collect fossil vertebrates, invertebrates and stratigraphic information from measured sections of area near Avalanche Lake, Grizzly Bear Lake and new localities in the general area.

Region: Fort Smith
Locations: Avalanche Lake, Mackenzie Mountains

File Number: 12 402 457

10125 (1990)

Mackenzie Valley Global Change Observatory

Paul Egginton

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

The team will install active layer monitoring stations at up to 8 sites on Richards Island. They will sample present active layer and surface permafrost for analysis of recent change as well as lake bottoms for similar reasons and a possible sea level record.

Region: Inuvik
Locations: Richards Island

File Number: 12 404 351

10108 (1990)

Macrolichens of the Mara, Burnside and Hood River Regions

William Gould

Department of Plant Biology
220 Biological Sciences Centre
1445 Gortner Avenue
Saint Paul, Minnesota 55108

The Researcher will collect lichens at approximately twenty sites along the Hood, Mara and Burnside Rivers. The macrolichen collection will be carried out to add to the understanding of the distribution of lichens in the Arctic.

Region: Kitikmeot
Locations: Mara, Hood and Burnside Rivers

File Number: 12 402 449

11138-R (1991)

Macrolichens of the Coppermine, Thomsen and Hood River Regions

William Gould

Department of Plant Biology
220 Biological Sciences Center
1445 Gortner Avenue
Saint Paul, Minnesota, U.S.A. 55108

The Researcher will collect lichens along the Coppermine, Hood and Thomsen rivers. The collections will be sent to the University of Minnesota for study.

Region: Kitikmeot
Locations: Rocknest Lake to Coppermine via the Coppermine River; Thomsen River to Banks Is.; Hood River to Umingmaktok

File Number: 12 402 449

10071 (1990)

Man's Impact on a Marine Ecosystem

K.J. Reimer

Royal Roads Military College
FMO Victoria, B.C. V0S 1B0

The Researchers will collect sediments, algae and molluscs from the waters of Cambridge Bay. Three locations will be sampled: an area receiving drainage from the radar site, an area similarly affected by the hamlet and a reference site located away from the influence of both. Samples will be evaluated in terms of occurance, population and distribution. They will be analyzed for substances arising from human activity.

Region: Kitikmeot
Locations: Cambridge Bay

11198-N (1991)

File Number: 12 402 494

Mass Balance Measurements of White and Baby Glaciers

Peter Adams

Department of Geography
Trent University
Box 4800
Peterboroough, Ontario K9J 7B8

The project will continue to take measurements of the accumulation of snow on the glaciers and try to ascertain how much snow and ice has been lost or gained since it was measured in 1990. Limnology experiments will be conducted on Colour Lake. Ice regimes will be monitored.

Region: Baffin
Locations: Axel Heiberg Island

File Number: 12 404 215

11104-R (1991)

Mass Balance Measurements of White and Baby Glaciers

Miles Ecclestone

Department of Geography
Trent University
Box 4800
Peterborough, Ontario K9J 7B8

The Researcher and team will take measurements of the accumulation of snow on the glaciers and try to acertain how much snow and ice has been lost or gained since it was measured in 1989. Acidity in Colour Lake will be studied. They will also monitor any impacts their activity has had on the wetland through which the lake drains.

Region: Baffin
Locations: Expedition Fiord, Axel Heiberg Island

File Number: 12 404 215

10082 (1990)

McGill Centre for Northern Studies and Research McGill Baffin Project

Bonnie Destounis

School of Physical and Occupational Therapy
McGill University
3654 Drummond Street
Montreal, Quebec H3G 1Y5

The researcher will complete the final stages of her two year project using data previously collected by questionnaire.

Region: Baffin
Locations: Iqaluit and Yellowknife, N.W.T.
File Number: 12 408 078

10042-R (1990)

Mechanisms for the Devolution of Power from the GNWT to Dene Communities

Dawn Sprecher

589 1/2 Water Street
Peterborough, Ontario K9H 3M7

The Researcher will conduct informal discussions and interviews with people in all levels of government, specifically Native involvement at the Territorial and Community level. The interviews will discuss methods that would best serve each community's need for self government.

Region: Fort Smith
Locations: Yellowknife, Fort Simpson, Fort Good Hope
File Number: 12 410 324

10173 (1990)

Mechanisms Mediating Freezing Tolerance in Arctic Insects

Olga Kukal

Department of Biology
University of Victoria
P.O. Box 1700
Victoria B.C. V8W 2Y2

Arctic arthropod communities are extremely sensitive to changes in their physical environment and their composition reflects trace elements in the atmosphere or minor fluctuations in temperature. This project is part of a larger, long-term project involving a survey of arctic arthropods which will ultimately provide a monitoring system for global climatic changes and indicate levels of pollutants.

Region: Baffin
Locations: Alexandra Fiord , Ellesmere Island
File Number: 12 402 373

11092-R (1991)

Mesoscale Climates and Paleoclimates of the Baffin Island Region

John D. Jacobs

Department of Geography
University of Windsor
Windsor, Ontario N9B 3P4

The Researcher and his team will continue a study which examines the local environments of the interior of Baffin Island to see how the climate and vegetation have responded during times of great change in the earth's climate, such as at the end of the last ice age and the warmer period that followed.

Region: Baffin
Locations: Amadjuak Lake, Nettilling Lake and NW margin of Barnes Ice Cap, Baffin Island
File Number: 12 404 030

10138-R (1990)

11089-R (1991)

Mesoscale Ice Deformation in the Beaufort Sea

David Topham

Institute of Ocean Sciences
9860 West Saanich Road
Box 6000
Sidney, B.C. V8L 4B2

The Researcher and his team will map and measure sea ice in the southern Beaufort Sea. They will use nine ARGOS drift buoys and will operate a small remote submersible equipped with upward looking sonar.

Region: Inuvik
Locations: Southern Beaufort Sea
File Number: 12 404 249

11045 (1991)

11135-D (1991)

Metabolism of Arctic Organisms

Helene Glemet

Department of Zoology
University of Guelph
Guelph, Ontario N1G 2W1

The Researchers will continue a study begun in 1990. They will study the types of fat found in muscle and liver of Arctic fishes and marine invertebrates.

Region: Baffin
Locations: Igloolik

File Number: 12 402 470

10209 (1990)
11187-R (1991)

Metal Levels in Fish Tissue from Lupin Project Area 1990

Stephen Harbicht

Area Habitat Management Biologist
Department of Fisheries and Oceans
Box 2310
Yellowknife, N.W.T. X1A 2P7

The Researcher and his team using gill nets will sample lake trout to determine the level of heavy metals in order to evaluate the bioaccumulation that has occurred.

Region: Kitikmeot
Locations: northern portion of Contwoyto Lake and Concession Lake

File Number: 12 402 468

10199 (1990)

Metamorphism of the Torp Lake Belt

Katherine Venance

Department of Earth Sciences
Carleton University
Ottawa, Ontario K1S 5B6

The researcher will map, in detail, mineral assemblages and the pattern of metamorphism of the field area.

Region: Baffin
Locations: 67 degrees, 15 and 37 minutes North and 109 degrees 00 and 40 minutes West

File Number: 12 404 372

10020 (1990)

Micro-Teaching: Inservice Education for Adult Educators

Barbara Schur

Box 187
Alberta Beach, Alberta T0E 0A0

Ms. Schur will conduct a two and a half day workshop and will collect information from the adult educators using interviews, observations and analysis of participant's journals.

Region: Inuvik
Locations: Inuvik, N.W.T.

File Number: 12 410 303

10015 (1990)

Migration and Physiology of Shorebirds at Alert, Ellesmere Island

Guy Morrison

Canadian Wildlife Service
National Wildlife Research Centre
100 Gamelin Boulevard
Hull, PQ K1A 0H3

Dr. Morrison and his research team will capture shorebirds to study their migration routes between northern Ellesmere Island and wintering areas in Europe. They will also study the physical condition of the birds to determine how they cope with the stress of migration and whether they need to bring fat and protein with them to survive and breed.

Region: Baffin
Locations: Alert, Ellesmere Island

File Number: 12 402 436

10066 (1990)
11128-R (1991)

Mixed Signals: An Analysis of Household Economy in Lake Harbour, N.W.T.

Michele Dupuis

Department of Geography
McGill University
805 Sherbrooke Street W
Montreal, Quebec H3A 2K6

Ms. Dupuis will continue work she began in 1989 in Lake Harbour to measure the economic importance of household activities, including hunting, fishing, tanning, carving and wage labour. She will also gather information on the acquisition of carving skills for Dr. Arlene Stairs.

Region: Baffin
Locations: Lake Harbour

File Number: 12 410 281

10208-R (1990)

Modelling Flooding Hydrology on the Mackenzie Delta

Donald Boyes

Department of Geography
University of Western Ontario
Social Science Centre
London, Ontario N6A 5C2

The Researcher and team propose to provide a better understanding of the present fluvial regime in the area and a method of assessing the effects of uncontrollable influences such as global warming and controllable factors such as hydro-electric and pipeline development.

Region: Inuvik
Locations: Mackenzie Delta between East Channel and Middle Channel

File Number: 12 402 461

10144 (1990)

Monitoring Movements and Dive Habits of Bowhead Whales

Bruce R. Mate

Oregon State University
Hatfield Marine Science Centre
Newport, Oregon, USA 97365

The Researchers will tag 12 bowhead whales. They will study how the whales move about during the feeding season and where and when they migrate west out of the Beaufort Sea. They will determine whether the migratory routes or timing vary between different kinds of animals and will determine the dive habits of the tagged animals.

Region: Inuvik
Locations: Eastern Beaufort Sea

File Number: 12 402 495

11204-N (1991)

Muskox Grazing On Arctic Range Vegetation

R. Harmsen

Department of Biology
Queen's University
Kingston, Ontario K7L 3N6

The Researcher and team will continue to study the relationship between muskoxen and the plants they eat. Since 1987 the effect of muskox grazing on arctic vetch plants has been studied. Investigations of a large number of vetch plants will include calculations on mortality rates, growth rates and renewal through seed.

Region: Inuvik
Locations: Northern Banks Island (confluence of Muskox and Thomsen Rivers)

File Number: 12 402 455

11078-R (1991)

Narwhale Hunt In the Eastern Canadian Arctic

Randall Reeves

27 Chandler Lane
Hudson, Quebec J0P 1H0

The purpose of this study is to understand the historical and present-day dynamics of narwhale hunting. In addition, Inuit hunter and government resource managers have a common interest in ensuring that these marine mammals are harvested at sustainable levels and that product markets remain stable. The success of this management strategy will be reviewed.

Region: Baffin
Locations: Arctic Bay

File Number: 12 402 471

10207 (1990)

Native Education as Cultural Brokerage: Learning in an Inuit Community

Arlene Stairs

104 Somerville
Westmount, Quebec H3Z 1J5

The study concerns processes of learning in an Inuit community today. It will focus on various learning settings (e.g. land, settlement, school) and groups of learners (e.g. adults learning new skills, school students). Special attention will be given to two features of the ongoing cultural brokerage between Inuit and western models of learning — native educator roles and bridging language forms.

Region: Baffin
Locations: Igloolik, Lake Harbour, Iqaluit

10156-R (1990)
11114-R (1991)

File Number: 12 410 244

Natural Frozen Soil Creep, Rea Point, Eastern Melville Island.

Lorne P. Bennett

Department of Geography
University of Guelph
Guelph, Ontario N1G 2W1

The Researcher and his assistant will follow up research conducted at the same site between 1985-87. They will compare known rates of permafrost creep with those measured following manipulation of certain field variables (i.e. alteration of the snow cover to change the natural ground thermal regime).

Region: Inuvik
Locations: Rea Point, Melville Island 75 22'N, 105 45'W

11002 (1991)
11015 (1991)

File Number: 12 404 414

Natural Resource Management Planning - A Conservation Strategy

Jackie Heath

R.R. #11
Peterborough, Ontario K9J 6Y3

The Researcher will develop a plan for a trail system for Inuvik and will propose a plan for the development, maintenance and possible uses for their impacts. She will also assist the Auyuittuq National Park Warden to develop a Park Conservation Management Plan.

Region: Baffin
Locations: Inuvik, Yellowknife and Pangnirtung

File Number: 12 404 419

11054-N (1991)

Nature of Employment Contributions to Life Quality in Iqaluit, N.W.T.

Karen Judson

202 - 215 Edinburgh Street
Peterborough, Ontario K9H 3E4

The Researcher will examine employment factors and how they relate to quality of life. The objectives include describing spatial, social and economic patterns and interpreting these factors with respect to quality of life.

Region: Baffin
Locations: Iqaluit, N.W.T.

File Number: 12 410 355

11083-N (1991)

Nettilling Lake Char Trap Fishery

Larry Simpson

Economic Development and Tourism
Government of the NWT
Iqaluit, NWT X0A 0H0

Two char traps of slightly different design and size will be designed, assembled and displayed in the Burwash Bay area of Nettilling Lake. Fish will be harvested and shipped to Iqaluit. Successful char trap technology will be disseminated during follow-up workshops with Baffin fishermen.

Region: Baffin
Locations: Nettilling Lake

File Number: 12 402 467

10175 (1990)

News Void in the Northwest Territories and Its Cultural Implications

Susan Schutta

5210 Ada Blvd
Edmonton, AB T5W 4N6

The Project will involve interviews with southern trained news gatherers and disseminators as well as members of the native community. Interviews will focus on the options Northerners have to creating and disseminating news in the North.

Region: MULTI
Locations: Yellowknife, Inuvik and Iqaluit

File Number: 12 410 314

11183-R (1991)

Nicholas Lake Fish Study

Aaron D. Sekerak

Applied Environmental Services
Box 1148
Yellowknife, NWT X1A 2P8

The Researcher and his assistant will obtain information on fish in the area so that potential impacts of mining in the region can be assessed.

Region: Fort Smith
Locations: Nicholas Lake

File Number: 12 402 465

10170 (1990)

Nicholas Lake Project/George Lake Project

Bruce Ott

Norecol Environmental Consultants Ltd.
700-1090 West Pender Street
Vancouver, B.C. V6E 2N7

The Researcher and his team will be collecting baseline environmental data on natural conditions at Nicholas and George Lakes. This includes collecting water, soils and vegetation information.

Region: Fort Smith
Locations: Nicholas Lake/ George Lake, NWT

File Number: 12 402 411

10101-R (1990)

Norman Wells Auroral Observatory for SPIRIT II

John V. Olson

Geophysical Institute
University of Alaska
Fairbanks, Alaska, USA 99775

The Team will place a remote aurora monitoring observatory to support a scientific experiment called SPIRIT II. The observatory in Norman Wells will fill in a gap in the internationally collected and shared auroral data set.

Region: Inuvik
Locations: Norman Wells

File Number: 12 404 431

11130-N (1991)

North Slope Char Summer Ecology Project

Steve Sandstrom

Department of Fisheries and Oceans
501 University Crescent
Winnipeg, Manitoba R3T 2N6

The Fieldwork will involve removing fish from selected pools by a number of methods including electroshocking, seine and angling. They will be anaesthetized, weighed, measured and tagged. The researcher estimates that no more than 5% of the total catch will be dead sampled.

Region: Inuvik
Locations: Inuvik, N.W.T.

File Number: 12 402 452

10090 (1990)

Northern Ellesmere Wintering Over Project 1990/91

D. le R. Bird

26 The Avenue
Andover,
Hants SP10 U.K. SP10 3EW

The researcher will carry out monthly collections of snow for analysis; ice algae from ice cores; ice crystals for analysis; snow samples during snow storms and a three-hourly traditional meteorology program.

Region: Baffin
Locations: Ward Hunt Island, N.W.T.

File Number: 12 404 370

10008 (1990)

Northern Hydrology and Climatology Studies

T.D. Prowse

National Hydrology Research Institute
Hydrological Sciences Division
11 Innovation Boulevard
Saskatoon, Saskatchewan S7L 3H5

Spring breakup in Northern Rivers are often associated with record water levels and often lead to flooding. Present methods of forecasting the severity of these events are hampered by lack of understanding. The acquired knowledge and understanding obtained from these studies will be applied to the enhancement of suitable models for predicting the time and magnitude of these events.

Region: Fort Smith
Locations: Fort Simpson Area

10145 (1990)

File Number: 12 404 309

Northern Indigenous Concepts of the Natural Environment

Timm Rochon

716 -45 Carlton Street
Toronto, Ontario M5B 2H9

The Researcher will conduct informal interviews to learn about Dene concepts and attitudes of nature and the relationship they believe themselves to have with their surrounding natural environment. The questions will focus on Dene ceremonies, rituals, prechristian religion and the manner in which these issues influence and encompass a Dene concept of nature.

Region: Inuvik
Locations: Fort Good Hope

11151-N (1991)

File Number: 12 410 369

Northern Issues - 91

William Rouse

Box 726
Fort Smith, NWT X0E 0P0

The Researcher will conduct a survey of newspapers and journals within the N.W.T. to gain a broad understanding of the most topical issues affecting the N.W.T. in 1991. The study will focus on socio-political, environmental and legal areas. A database containing the organizations and institutions involved in these issues will be established.

Region: MULTI
Locations: Fort Smith

File Number: 12 410 375

11181-N (1991)

Northern River Ice Regimes

David A. Sherstone

Glaciology Division
Inland Water Dir./EMS
Fisheries and Environment Canada
Ottawa, Ontario

Ice thickness gauges are installed on river channel ice. Twenty gauges are installed in the Mackenzie Delta and 12 in Hay River. Every 10 days the gauges are read to obtain the total ice, which ice and snow quantities at each site.

Region: IN/FS
Locations: Mackenzie Delta; Hay River

File Number: 12 404 240

10022-R (1990)

Northwest Passage Expedition

Derik Muir and Dan Jaffe

c/o Tom Viren
12029-180 St E
Hastings, Minnesota, USA 55033

Mr. Lonnie Dupre, Mr. Malcolm Vance and Mr. Jon Nierenburg will collect snow and plant material samples on behalf of Mr. Derik Muir, Department of Fisheries and Oceans, Canada and Mr. Dan Jaffe, Geophysical Institute, University of Alaska, Fairbanks.

Region:
Locations: Prudhoe Bay Alaska to Repulse Bay, NWT , along the Arctic Coast

File Number: 12 402 506

11225-E (1991)

Northwest Territories Injury Research and Prevention Project

Carolyn Pim

Territorial Epidemiologist
Department of Health
Box 1320, Lahm Ridge Towers
Yellowknife X1A 2L9

Information concerning how, where and why injuries happen will be collected and added to the national database. This information will aid the present health system to target specfic areas of concern and to increase intervention programs to the public.

Region: Fort Smith
Locations: Yellowknife

File Number: 12 408 083

10217 (1990)

Northwest Territories Injury Research and Prevention Project

Miriam Wideman

Health Researcher
GNWT Department of Health
Box 1320
Yellowknife, N.W.T. X1A 2L9

During the second year of this study, the researchers will continue to collect information concerning how, where and why injuries happen. This information will be added to the national database. This information will aid the present health system to target specific areas of concern and to increase intervention programs to the public.

Region: Fort Smith
Locations: Yellowknife

File Number: 12 408 083

11219-R (1991)

Nunavut, The Making of a Territory

Cecil Phillip Clarke

Box M-1669
Mount Allison University
Sackville, New Brunswick E0A 3C0

The Researcher will focus on an overview of the ecology, history, culture, socio-economy and politics of the Eastern Arctic.

Region: Baffin .
Locations: Iqaluit, N.W.T.

File Number: 12 410 316

10073 (1990)

Nutrition and Distribution of Arctic Marine Zooplankton

Kent Gustavson

Department of Biology
Dalhousie University
Halifax, Nova Scotia B3H 4J1

The Researcher will determine how the feeding rates (also related to the availability of algal food) and metabolism of arctic marine zooplankton are related to their distribution and transportation through the waters of Barrow Strait.

Region: Baffin
Locations: Resolute Bay, NWT

File Number: 12 402 458

10133 (1990)

11046-R (1991)

On-Shore/Off-Shore Beaufort Shelf Drilling Program

S.R. Dallimore

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

The team will drill and sample five 100 meter boreholes along a transect from northern Richards Island to an anomalous permafrost site 25 Km off-shore. In site testing, geophysical and geothermal logging will accompany the drilling. Undisturbed core will be maintained and shipped to the SINT lab in Inuvik for detailed logging, testing and subsampling.

Region: Inuvik
Locations: Northern Richards Island and Beaufort Shelf
File Number: 12 404 359

10109 (1990)

Oral Health of Canada's Native People; Circuits 1 & 2: Children aged 5 and 12

James Leake

Department of Community Dentistry
University of Toronto
124 Edward Street
Toronto, Ontario M5G 1G6

This research will be used to assess adequacy of and, if needed, plan revisions in current dental care services to best meet the needs of native people, on both a regional and national basis.

Region: Baffin
Locations: Baffin Region
File Number: 12 408 082

10215 (1990)

Oral History of Culture Contact in Frobisher Bay

Susan D.M. Rowley

6660 Forest Glen Road
Pittsburgh, PA, USA 15217

The Researcher will investigate how Inuit perceptions of outsiders have changed through time from Sir Martin Frobisher to the American military.

Region: Baffin
Locations: Iqaluit
File Number: 12 410 392

11223-N (1991)

Ordovician and Silurian Trilobites from the Canadian Arctic

Brian Chatterton

Department of Geology
University of Alberta
Edmonton, Alberta T6G 2E3

The research will involve measuring rock sections & rocks for processing in the laboratory to extract trilobite fossils. The specimens will then be photographed, described & identified. Distribution of these species will be mapped in time & space to better understand their evolution & extinction patterns.

Region: Baffin
Locations: Arctic Islands-Baillie-Hamilton, Cornwallis, Somerset, Etc.
File Number: 12 404 086

11108-D (1991)

Organic Contaminants in the Arctic Ecosystem-Ringed Seal as a Biomonitor

C.D. Metcalfe

c/o Watershed Ecosystems
Trent University
Peterborough, Ontario K9J 7B8

The Researcher will examine the variation of organochlorine contaminants (O.C.'s) in the arctic ringed seal species. Major trends in concentrations will be outlined on 4 distinct levels: 1) variation within individual seals 2) seasonal variation in one seal population 3) variation between seal populations from two distinct sites 4) long-term temporal variations at these two locations.

Region: Baffin
Locations: Sanikiluaq
File Number: 12 402 487

11137-N (1991)

Paleoclimatic Significance of Laminated Lake Sediments

Michael Retelle

Department of Geology
Bates College
Lewiston, Maine, USA 04240

Mr. Retelle and his research team intend to gather information from sediment cores to reconstruct climatic conditions from the sediment records for the period prior to the existing instrumental records for the high arctic.

Region: Baffin
Locations: Sophia Lake, Eastern Cornwallis Island; Taconite Inlet, Northwestern Ellesmere Island

File Number: 12 404 264

10070-R (1990)
11132-R (1991)

Paleoecological and Geological Study of the Isortoq River and Flitaway Lake

Alan Morgan

Department of Earth Sciences
University of Waterloo
University Avenue
Waterloo, Ontario N2L 3G1

The Researcher and team will take samples of organic sediments and process them to remove insect and plant fossils. Identification of these fossils will provide the basis for a paleoenvironmental analysis by comparing the fossil organisms to modern ones.

Region: Baffin
Locations: Isortoq River and Flitaway Lake, north and west of the Barnes Ice Cap, Baffin Island

File Number: 12 404 392

10129 (1990)

Paleoecology of Vertebrates

D.K. Elliott

Department of Geology
Northern Arizona University
Box 6030
Flagstaff, Arizona USA 86011

This research project will involve the measurement and description of stratigraphic sections and the collection of rock and fossil samples for laboratory study.

Region: Baffin
Locations: Arctic Islands

File Number: 12 404 243

10120 (1990)

Paleoenvironment of the Truelove Lowland Area, Devon Island, N.W.T.

Roger H. King

Department of Geography
Social Science Centre
University of Western Ontario
London, Ontario N6A 5C2

The Researcher & his team will study the age, chemistry and fossil organisms preserved in the lake sediments of the Truelove Lowland & use this information to reconstruct past environmental changes that have taken place in these Polar Oases during the last 10,000 years.

Region: Baffin
Locations: Truelove Lowland; Cape Skogn; Cape Newman-Smith; Cape Sparbo-Hardy and adjacent area, Devon Island

File Number: 12 404 293

10147-R (1990)
11062-R (1991)

Paleosol Evolution, Correlation, and Associated Mineralization

Quentin Gall

Department of Earth Sciences
Carleton University
Ottawa, Ontario K1S 5B6

The Researcher will collect samples of the sub-Thelon paleosol (ancient weathering horizon in the rocks). These samples will be taken back to Carleton University, Ottawa to be chemically analysed and systematically classified.

Region: Keewatin
Locations: Schultz and Aberdeen Lakes, Keewatin District

File Number: 12 404 355

11090-R (1991)

Paleosol Evolution, Correlation and Associated Mineralization

Quentin Gall

Department of Earth Sciences
Carleton University
Ottawa, Ontario K1S 5B6

The researcher will collect and document rock samples of the paleosol (ancient soil) developed beneath the sedimentary rocks of the 1.7 billion year old Hornby Bay Basin.

Region: Inuvik
Locations: Immediately East of Hornby Bay, Great Bear Lake
File Number: 12 404 355

10014-R (1990)

Paleontology and Stratigraphy of the Ordovician - Silurian Boundary

Michael Melchin

Department of Earth Sciences
Waterloo, Ontario N2L 3G1

The Researcher and his assistants will carry out fieldwork which involves the collection of fossils (most of which are microscopic), rock samples, photographs and notes on the outcrops on northeastern Cornwallis Island. The work is to lead to a better understanding of the environmental changes brought about by changing climate.

Region: Baffin
Locations: Northeastern Cornwallis Island
File Number: 12 404 223

10128 (1990)

Parasites in Dogs in Iqaluit

Jackie & Guy Deschenes/Audlakiak

Grade 7
GREC
Iqaluit, N.W.T. X0A 0H0

The students of Grade 7-3 class will collect and analyse dog feces in liaison with the Department of Public Health.

Region: Baffin
Locations: Iqaluit, N.W.T.
File Number: 12 402 444

10007 (1990)

Thematic Annotation of the 1821-1823 Journals of Parry and Related Texts

John MacDonald

Igloolik Research Centre
Igloolik, NWT X0A 0L0

The expedition journals kept by W.E. Parry during his visits to the Northern Foxe Basin in the years 1821-1823 will be organized, excerpted & annotated under approximately 100 thematic headings & sub-headings. These journals provide the earliest written records of this area. The project will emphasize Inuit ethnology but will include geography, toponymy, biology, botany and climatology.

Region: Baffin
Locations: Igloolik
File Number: 12 410 346

11034-N (1991)

Patterns of Crime in Arctic Communities

Nancy Wachowich

33 Becher Street #1
London, Ontario N6C 1A4

The Researcher will investigate patterns of crime in Arctic communities and the role the Northern Justice system plays in defining and managing these crimes. The research will be focused primarily on incidents involving Inuit women. Methodology will include reading public documents, interviewing people working in the system, tracing current cases in court, and conversing with people within organized community aid programs.

Region: Baffin
Locations: Pond Inlet
File Number: 12 410 360

11103-N (1991)

Patterns of Formal Structure in Inuktitut Texts

Jeanette Ireland

Box 547
Iqaluit, NWT X0A 0H0

Jeanette Ireland will continue collecting oral Inuit stories from elders of various eastern Arctic communities and written Inuit textbooks. The researcher hopes to improve approaches to the study of Inuktitut texts, oral and written, as literature representative of Inuit perceptions of world issues and social interaction.

Region: Baffin
Locations: Iqaluit
File Number: 12 410 259

10025-R (1990)

PEGSAT 89

E.D. Crook

Space Science Program
Canadian Space Agency
National Research Council, 100 Sussex Drive
Ottawa, Ontario K1A 0R6

The PEGSAT satellite will be put into near polar orbit, about 580 km altitude in early March. This small satellite contains two canisters of non-toxic chemicals which will be released during passes of the satellite over north-central Canada. Scientists will track the motion of the chemical in the Earth's magnetic and electrical fields with very sensitive optical equipment located at numerous ground sites in Canada and the U.S.

Region: Keewatin
Locations: Baker Lake, N.W.T.
File Number: 12 404 373

10029 (1990)

Pelly Bay Ethnohistorical Research

Henry Stewart

c/o Levi Illuitok
Pelly Bay, NWT X0E 1K0

The researchers will gather further data concerning the unique caribou hunting method employed until about 1930 that they researched in 1988 and 1989. Once finished the researchers will prepare both a technical and non technical report for the hamlet.

Region: Kitikmeot
Locations: Pelly Bay, N.W.T.
File Number: 12 410 308

10039 (1990)

People Transported South for Treatment of TB in the 1940's to 1960's

Pat Grygier

549 Queen Street East
Box 686
St. Mary's, Ontario N0M 2V0

Ms. Grygier will gather information on the TB epidemic among the Inuit during the 1940's to 1960's by means of a questionnaire. These will be administered by senior high school students who will conduct interviews with elders in Inuktitut and translate their stories into English. Ms. Grygier will use the information to write an historical account of the TB epidemic.

Region: BA/KE/KI
Locations: Arviat, Gjoa Haven, Pangnirtung, Coppermine, Iqaluit and Resolute Bay, N.W.T.
File Number: 12 408 075

10034-R (1990)

Perceptions of Health and Traditional Foods

Christine Egan

Apt. 1110
981 Main Street West
Hamilton, Ontario L8S 1A8

Ms. Egan will continue work begun in 1988. She will interview individuals regarding frequency and severity of perceived health problems and the frequency with which health care was sought during the period of June to August 1990.

Region: Keewatin
Locations: Coral Harbour, NWT
File Number: 12 410 238

10210-R (1990)

Permafrost Adjustment to Coastal and Deltaic Processes

Larry Dyke

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

The Researcher will follow detailed studies by the GSC on permafrost distribution along retreating coasts at the N end of Richards Is., & adjacent areas of sediment accumulation to find out how quickly permafrost was re-established. This study will extend further westward to determine the adjustment of permafrost to the rapid sedimentation occurring there.

Region: Inuvik
Locations: North end of Richards Island and the coast of Richards Island between there and the mouth of Harry Channel

10140 (1990)
11073-R (1991)

File Number: 12 404 250

Permafrost and Ground Ice / Massive Ground Ice

Wayne H. Pollard

Department of Geography
McGill University
805 Sherbrooke Street West
Montreal, Quebec H3A 2K6

Field investigation of natural exposures of massive ground ice & bodies of surface ice. Sites identified in previous field seasons will be visited & samples of ice, water & sediment will be taken for further analyses. The results of this research will help in the interpretation of climate change & the assessment of both natural & human induced terrain disturbance.

Region: Baffin
Locations: Expedition Fiord, Axel Heiberg Island; Fosheim Peninsula, Ellesmere Island

11055-R (1991)

File Number: 12 404 321

Permafrost Conditions Associated with Eastern Arctic Water Storage Facilities

James A. Hyatt

Department of Geography
Queen's University
Kingston, Ontario K7L 3N6

Mr. Hyatt is continuing his study to see if permafrost and ground ice are affecting the new water reservoir at Pangnirtung and at Pond Inlet.

Region: Baffin
Locations: Pangnirtung; Pond Inlet;

File Number: 12 404 305

10049-R (1990)

Permafrost Investigations in the Western Arctic

Hugh French

Department of Geography
University of Ottawa
Ottawa, Ontario K1N 6N5

The Researchers will conduct initial exploration of potential sites for the purpose of undertaking stratigraphic and geomorphological investigations.

Region: Inuvik
Locations: Richards Island and Tuktoyaktuk

File Number: 12 404 074

10213 (1990)

Permafrost Studies: Western Arctic Coast

J.R. Mackay

Department of Geography
University of British Columbia
Vancouver, British Columbia V6T 1W5

The Researcher and his team will continue field research on permafrost, along the Western Arctic Coast. They will study the growth of permafrost, pingos and ice wedges.

Region: Inuvik
Locations: Inuvik; Tuk Peninsula area; Garry Island; Horton River Mouth;

File Number: 12 404 247

11085-R (1991)

Peterhead Inlet Archaeological Project

Douglas Stenton

c/o Environmental Technology Program
Arctic College
Box 1000
Iqaluit, NWT X0A 0H0

As part of the Environmental Technology Program of Arctic College this work will attempt to integrate Euro-Canadian science with Inuit traditional knowledge. The Peterhead Inlet site provides a context in which students/ participants gain experience in the fundamentals of data analysis and recovery while exploring a diverse range of research topics.

Region: Baffin
Locations: Peterhead Inlet, Baffin Island
File Number: 12 410 160

10126 (1990)

Planning for Conservation and Development: Park

D. Scott Slocombe

Tamar Services
973 King Street W
Kitchener, Ontario N2G 1G7

This three year research project will begin this year. The study will compare conservation and development planning methods and processes in several resource-based regions of the world. Information will be collected on existing methods and processes in the Beaufort Sea, Yukon North Slope, Kluane, and Prince William Sound .

Region: IN/SM
Locations: Yellowknife and Inuvik
File Number: 12 410 364

11113-N (1991)

Polonium 210 and Lead 210 in Food Chains

Patricia Thomas

Biology Department
University of Saskatchewan
Saskatoon, Saskatchewan S7N 0W0

The study will compare two arctic food chains, namely, lichen-caribou- wolf and lichen-caribou-human to investigate the accumulation and transfer of Polonium-210 and Lead-210. Background levels of radiation will be measured by collecting samples of lichen, caribou, wolf and human placenta.

Region: SM/KE
Locations: Snowdrift and Baker Lake, NWT
File Number: 12 408 085

11064-N (1991)

Population Dynamics of the Collared Lemming

Charles Krebs

Department of Zoology
University of British Columbia
Vancouver, B.C. V6T 2A9

The Researcher and team will continue to study collared lemmings, the most widespread mammaliam herbivore on the Canadian arctic tundra.

Region: Inuvik
Locations: Pearce Point, N.W.T.
File Number: 12 402 483

11058-L (1991)

Postglacial Treeline Change in the Mackenzie-Selwyn Mountains

Glen M. MacDonald

Department of Geography
McMaster University
1280 Main Street West
Hamilton, Ontario L8S 4K1

Dr. Glen MacDonald and his team will collect lake sediment core samples from 3 or 4 small lakes in the Mackenzie Mountains, adjacent to the Canol Road for the purpose of fossil pollen and macrofossil analysis. The area will be revisited in July to conduct surveys of vegetation at and around the treeline.

Region: Inuvik
Locations: Mackenzie-Selwyn Mountains southwest of Norman Wells
File Number: 12 404 262

10048 (1990)

Potential for the Development of Recreational Trails in the N.W.T. and Yukon

Brenda McClelland

General Delivery
Carnarvon, Ontario K0M 1J0

The Researcher will conduct a case study of the planning and management of a recreational trail. General information on trails in Iqaluit will be gathered from agencies, outfitters, guides and trail users.

Region: Baffin
Locations: Iqaluit, N.W.T.

File Number: 12 404 384

10099 (1990)

Potential Masking of Marine Mammal Sounds by Ship Noise

Susan Cosens

Department of Fisheries and Oceans
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba R3T 2N6

In consultation and co-operation with the community of Arctic Bay, the Researcher and team will record sounds made by beluga whales. This study is part of a program that was begun in 1986 to determine whether underwater shipping noise interferes with beluga communication.

Region: Baffin
Locations: Lancaster Sound, NWT

File Number: 12 402 397

10098-R (1990)
11066-D (1991)

Pre-Natal Allowance in Reducing Infant Mortality Rates in the Baffin Is. Region

Deborah McWhinney

9C8 Jean Talon Building
Ottawa, Ontario K1A 0T6

In co-operation with the GNWT Department of Social Services and the Women's Shelter, Iqaluit, the Researcher will investigate the extent to which women feel empowered by the health care system, particularly pre-natal health care.

Region: Baffin
Locations: Iqaluit

File Number: 12 410 376

11192-N (1991)

Precambrian/Early Cambrian Fossils of the Mackenzie Mountains

Guy Narbonne

Department of Geological Sciences
Queen's University
Kingston, Ontario K7L 3N6

Dr. Narbonne and his team will continue work begun in 1982 in the Mackenzie Mountains. They will collect and study fossils in the rocks with the ultimate aim of understanding the origin and early evolutions of animal life.

Region: Inuvik
Locations: Mackenzie Mountains, Bluefish Creek area, Sekwi Mountain area, Sekwi Brook area, Stone Knife River

File Number: 12 404 336

11084-R (1991)

Precise Geodetic Levelling

Dave Erickson

Geodetic Survey of Canada
Energy, Mines and Resources Canada
Rm 493 - 615 Booth Street
Ottawa, Ontario K1A 0E9

The Researcher and his team will carry out a project to improve water flow studies, channel dredging, mapping and local construction surveys.

Region: Inuvik
Locations: Inuvik and Aklavik, NWT

File Number: 12 404 415

11028 (1991)

Prediction of Physique from Skeletal Measurements and Ratios.

Alan M.W. Porter

Redcrest,
Heath Rise,
Camberley,
Surrey, Great Britain GU15 2ER

This researcher will measure the stature, sitting height, weight and various long bones of Inuit volunteers. A metal tape measure and anthropological calipers will be used during this approximate 15 minute process.

Region: Baffin
Locations: Igloolik, N.W.T.
File Number: 12 402 477

11010 (1991)

Preliminary Studies in Inuktitut Syntax

Anna Berge

3125 College Avenue #4
Berkeley, CA, USA 94705

The Researcher will conduct preliminary research specific to learning Inuktitut and to developing relations with the community.

Region: Baffin
Locations: Iqaluit
File Number: 12 410 353

11070-N (1991)

Preparation of a Management Plan for the Pingos Canadian Landmark

Bruce K. Downie

2034 Casa Marcia Crescent
Victoria, British Columbia V8N 2X3

The research will assist in the preparation of a management plan for the Pingos Canadian Landmark Site.

Region: Inuvik
Locations: Inuvik, Tuktoyaktuk and the Pingos Canadian Landmark Site
File Number: 12 410 391

11222-N (1991)

Principals' Certification Course of the NWT

George McGrath

11943 - 51 Street
Edmonton, Alberta T5W 3G5

The researcher will interview planners & developers of the Course to determine its purpose. A questionnaire will be sent to selected principals to determine the effect of the course. A small number of schools will be visited to confirm the effect, if any, on the organization and operation of these schools & if it can be traced to the participation of the principal in the course.
Region: MULTI
Locations: Yellowknife and selected communities
File Number: 12 410 366

11129-N (1991)

Productivity of Marine Mammal Food Chains in the Northwest Passage

Harold Welch

501 University Crescent
Freshwater Institute
Environmental Impact Research
Winnipeg, Manitoba R3T 2N6

The Researchers will measure the distribution of phytoplankton, nutrients, and zooplankton. They will sample the benthos, especially clams. A remote camera will be set up on southwest Devon Island to monitor the coast for movements of cod and whales. If sighted they will determine their size, sample their planktonic prey and monitor predation on the school by birds and mammals.

Region: Baffin
Locations: eastern Northwest Passage and adjacent channels
File Number: 12 402 209

10159-R (1990)

11093-R (1991)

Productivity of Marine Mammal Food Chains in the Northwest Passage

Harold Welch

501 University Crescent
Freshwater Institute
Environmental Impact Research
Winnipeg, Manitoba R3T 2N6

Dr. Welch and his project personnel will continue work on a study which began in 1984. The objective of the study continues to be the quantification of food web leading to marine mammal and bird production in the Canadian Marine Arctic.

Region: Baffin
Locations: Barrow Strait area, south Wellington Channel and the south coast of Devon Island

File Number: 12 402 209

10159-R (1990)

Psychiatric Morbidity in an Arctic Urban Community

Hugh Sampath

255 Le Marchant Road
St. John's, Newfoundland A1E 1P8

Dr. Sampath will study medical records at the Baffin General Hospital. The study will be concentrated on the five year period prior to the presence of private practitioners. He will compare the results to a similar study he conducted in 1968-69.

Region: Baffin
Locations: Iqaluit, N.W.T.

File Number: 12 408 076

10045-R (1990)

Public Consultation & Prioritized Values-at-Risk in NWT Forest Fire Man. Policy

Kim Clark

Department of Forest Science
855 General Services Building
University of Alberta
Edmonton, Alberta T6G 2H1

The Researcher will conduct interviews with individuals and agencies. Questions will be designed to solicit individual and community definition and prioritization of resources (values-at-risk) endangered by forest fire.

Region: Fort Smith
Locations: Hay River, Ft. Liard and Snowdrift

File Number: 12 402 498

11208-N (1991)

Quaternary Geology / Late Cenozoic Deposits

Jean-Serge Vincent

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

1. Sections along rivers and the coast will be examined to determine the nature of the sediments and their fossil content. 2. Sites on the mainland, sections on northwestern Banks Island, Sachs Harbour (Duck Hawk Bluffs) and Worth Point area will be visited and similar investigations undertaken.

Region: Inuvik
Locations: Cape Bathurst Peninsula or Horton River Upland, Tuktoyaktuk Peninsula, NW & SW Banks Island, Sachs Harbour

File Number: 12 404 258

11112-R (1991)

Quaternary Geology and Geomorphology of the Fosheim Peninsula

Trevor Bell

Department of Geography
University of Alberta
Edmonton, Alberta T6G 2H4

This research is an extension of previous fieldwork completed in 1988 and 1989. Mapping surficial deposits and reconstructing former ice limits and sea level adjustments, investigations of landforms and associated sediments, collection and dating of organic material pertaining to terrestrial and raised marine deposits, and mapping distributions of glacial erratics will be undertaken.

Region: Baffin
Locations: Fosheim Peninsula, West-Central Ellesmere Island

File Number: 12 404 340

10102-R (1990)

Quaternary Geology and Geomorphology, Southern Melville Peninsula, NWT

Lynda Dredge

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

The Researcher and her assistant will map the terrain and take soil and rock samples for laboratory studies.

Region: Baffin
Locations: Repulse Bay, NWT

File Number: 12 404 387

10107 (1990)

Quaternary Geology of Hudson Strait

Brian MacLean

Atlantic Geoscience Centre
Geological Survey of Canada
Bedford Institute of Oceanography, Box 1006
Dartmouth, Nova Scotia B2Y 4A2

The Researcher and his team will be travelling through Hudson Strait by research ship to take samples of the deposits and sediments in the Strait. They will be investigating the history and conditions of the area based on the sediments record in order to detail the late glacial and post glacial conditions of the Strait.

Region: Baffin
Locations: Hudson Strait, Ungava Bay and Frobisher Bay

File Number: 12 404 254

10189 (1990)

Quaternary Geology of Northwest Baffin Island

Arthur S. Dyke

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

The Researcher and his team will make maps of land features and material that rests on rocks.

Region: Baffin
Locations: Borden Peninsula, Baffin Island

File Number: 12 404 389

10122 (1990)

Quaternary Geology, South Shore of Great Slave Lake

Donald Lemmen

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

Dr. Lemmen and his assistant will collect soil samples. Their findings will be helpful in setting Land Use Regulations, in mineral explorations and engineering construction. The field geology work will also provide historical data for the area.

Region: Fort Smith
Locations: Copp Lake, Buffalo Lake, Buffalo River, Kakisa Lake, Tathlina Lake, Cameron Hills, Deskenatlata Lake, Preble & Simpsons Lakes

File Number: 12 404 291

10051-R (1990)

Quaternary Geology, South Shore of Great Slave Lake

Donald Lemmen

Research Scientist
Quaternary Geology Subdivision
Earth Sciences, Geological Survey of Canada
Calgary, Alberta T2L 2A7

The Researchers will collect small samples of surficial materials for sedimentological, geochemical and paleoecological analysis. They will map, describe and explain the unconsolidated deposits, landforms, permafrost and organic cover and study patterns of glacial dispersal and drift geochemistry.

Region: Fort Smith
Locations: Hay River, Pine Point and Kakisa area

File Number: 12 404 291

11081-R (1991)

Quaternary Geology, West-Central Axel Heiberg Island

Donald Lemmen

Research Scientist
Quaternary Geology Subdivision
Earth Sciences, Geological Survey of Canada
Calgary, Alberta T2L 2A7

The Researcher will map, describe, explain the surficial deposits and geomorphology and study glacial history and relative sea level changes. This will involve mapping and surveying as well as the collection of small samples for sedimentological, geochemical and paleoecological analysis.

Region: Baffin
Locations: Expedition Fiord and Strand Fiord, Axel Heiberg Island
File Number: 12 404 291

11102-D (1991)

Quaternary Glacial History and Surficial Materials of Northwestern Baffin Island

James Matthew Hooper

Geography Department
University of Alberta
Edmonton, Alberta T6G 2H4

The Researcher will map the surficial geology and glacial landforms of the area using air photographs and field evidence. They will also verify interpretations made from air photos by checking mapped units on the ground and by collecting soil samples for laboratory analysis.

Region: Baffin
Locations: Agu Bay area, northwestern Baffin Island
File Number: 12 404 429

11123-N (1991)

Quaternary History of Nansen Sound

Jan Bednarski

Professor of Geography
Trent University
Peterborough, Ontario K9J 7B8

The Researcher will map surficial deposits, log stratigraphic sections and survey raised marine shorlines in the Nansen Sound area.

Region: Baffin
Locations: Axel Heiberg Island, NWT
File Number: 12 404 308

10104 (1990)

RADAR, SPOT and Landsat TM Data to Classify Wildlife Habitat

Steven Matthews

Department of Renewable Resources
Government of the NWT
Box 1320
Yellowknife, NWT X1A 2L9

The project will evaluate airborne RADAR data, Landsat TM, SPOT satellite data to distinguish vegetation cover types of the tundra near Baker Lake. Detailed vegetation surveys will be carried out in the field. The data will be used to classify vegetation cover types & in an accuracy assessment. Wildlife habitat types will be produced as mapped products.

Region: Keewatin
Locations: Kiggavik Mine area
File Number: 12 402 491

11177-N (1991)

Reconstruction of Holocene Environments

Christian Begin

2700 Einstein
C.P. 7500
Sainte-Foy, Quebec G1V 4C7

The research team will investigate a few localities to determine the best sites to study eolian deposits (sand dunes) and features related to permafrost degradation. Samples of granular and organic deposits will be taken.

Region: SM/BA/IN
Locations: Fosheim Peninsula, Ellesmere Island; Fort Simpson; Norman Wells; Inuvik;
File Number: 12 404 406

10188 (1990)

Recovery of High Arctic Vegetation from Disturbance by Human Occupation

Bruce C. Forbes

Department of Geography
McGill University
805 Sherbrooke Street Wxest
Montreal, P.Q. H3A 2K6

Bruce Forbes is looking at how quickly plants are invading the old settlement of Clyde River where the ground was cleared for buildings and roads. This site will be compared to undisturbed ground and similar disturbances at other human occupancy sites within the High Arctic.

Region: Baffin
Locations: Clyde River and area; Lake Hazen, Ellesmere Island; Truelove Lowland, Devon Island

File Number: 12 402 419

10013-R (1990)

Regional Variations in Canadian Abortion Rates: A Case Study of the NWT

Patricia Lux

Department of Geography
University of Saskatchewan
Saskatoon, Sask. S7N 0W0

The Researcher will conduct a literature search and statistical analysis on information available on attitudes toward abortion. Medical personnel and some community leaders will be interviewed to gain insight into the acceptance of abortion in the north. The researcher will not be contacting or surveying the public.

Region: SM/BA
Locations: Yellowknife, Fort Smith and Iqaluit, N.W.T.

File Number: 12 410 310

10032 (1990)

Reindeer Range on the Belcher Islands

Gregory Henry

Department of Geography
University of Alberta
Edmonton, Alberta T6G 2H4

The Researcher and his team will assist the community of Sanikiluaq and the local Hunters and Trappers Association who are concerned about managing the reindeer herd for sustained meat production. In 1978 sixty reindeer were introduced on the Belcher Islands and the herd has grown to approximately 530 in 1990.

Region: Baffin
Locations: Belcher Islands, N.W.T.

File Number: 12 402 421

10091 (1990)

Reindeer Range on the Belcher Islands

Gregory Henry

Department of Geography
University of Alberta
Edmonton, Alberta T6G 2H4

In association with the Hunters and Trappers Association in Sanikiluaq, the Researchers will assess the extent and productivity of the range on the Belchers to estimate how many reindeer can be supported before they begin to damage the habitat.

Region: Baffin
Locations: Belcher Islands

File Number: 12 402 421

11169-R (1991)

Relocation of Arctic Quebec Inuit / Ethnography of Arctic Science

Ellen Bielawski

10971 Cedar Lane
R.R. #4
Sidney, B.C. V8L 4R4

The Researcher will compare Arctic Science and Inuit Knowledge by conducting an ethnography of Arctic science and a study of how Inuit constructed knowledge when relocated to the High Arctic from Arctic Quebec.

Region: Baffin
Locations: Resolute Bay, Grise Fiord

File Number: 12 410 350

11059-N (1991)

Relocation of Inuit from Inukjuak to Resolute/Grise Fiord in the 1950's

Daniel Suberman

Faculty of Law
Queen's University
Kingston, Ontario K7L 3N6

The Researcher will interview as many community members with direct recollections or with useful oral contributions of recollections from their friends and families; do a search of relevant government and other documents and of research done by other researchers; write a report summarizing the findings; make appropriate recommendations to the parties concerned.

Region: Baffin
Locations: Resolute, Grise Fiord, Pond Inlet
File Number: 12 410 381

11210-N (1991)

Reproductive Biology of Lichens in an Arctic Environment

Diane Fahselt

Associate Professor
Department of Plant Sciences
University of Western Ontario
London, Ontario N6A 5B7

The researcher will study the basic biology of lichens growing in northern environments.

Region: Baffin
Locations: Central Sverdrup Pass, Ellesmere Island
File Number: 12 402 445

10019 (1990)

Resident and Visitor Perspectives on Community Tourism Development

Allison Woodley

113 Mount Hope Street
Kitchener, Ontario N2G 2J6

Identified key informants in the community will be interviewed to determine what issues should be explored. Visitors will be interviewed to determine their views on the direction tourism should take. These issues will then be used to develop questions that will be asked of a random sample of housholders in the community.

Region: Keewatin
Locations: Baker Lake
File Number: 12 410 323

10165 (1990)

Responses to Literature by Inuit and Non-Inuit Grade Ten Students

Audrey Demchuk

#202, 10845 - 86 Avenue
Edmonton, Alberta T6E 2N1

Ms. Demchuk will use Rosenblatt's theory of response to literature to explore what sociocultural factors and personal experiences affect students' interpretation of the reading and writing of literature, primarily fiction.

Region: Baffin
Locations: Iqaluit, N.W.T.
File Number: 12 410 304

10018 (1990)

Revegetation and Recovery of the Inuvik Burn Site - An Update

Wayne H. Pollard

Department of Geography
Memorial University of Newfoundland
St. John's, Newfoundland A1B 3X9

This project will involve a comparative study of plant types and terrain conditions between a series of sites from the 1968 burn site near Inuvik with sites that are undisturbed.

Region: Inuvik
Locations: Inuvik, NWT
File Number: 12 404 321

10115 (1990)
11055-R (1991)

Ringed Seal Biology

Robert E.A. Stewart

Department of Fisheries and Oceans
Freshwater Institute,
501 University Crescent
Winnipeg, Manitoba R3T 2N6

This study involves the weighing, measuring and sampling of ringed seals which are harvested during normal hunting activities around Pangnirtung. Sampling includes the collection of various tissues and organs. This information will be used to estimate how quickly the ringed seal population replaces harvested animals.

Region: Baffin
Locations: Pangnirtung
File Number: 12 402 119

10218 (1990)

Risk Factors for the Development of Childhood Hemolytic Urmemic Syndrome

Elaine Orrbine

Research Coordinator
Children's Hospital of Eastern Ontario
401 Smyth
Ottawa, Ontario K1H 8L1

The research will evaluate the incidence and severity of childhood HUS (Hemolytic Urmemic Syndrome).

Region: Kitikmeot
Locations: Arviat
File Number: 12 408 087

11201-N (1991)

Rites Coutumiers/Customary Rituals

Xavier Blaisel

107 - 109 Avenue du Marechal
Leclerc
Saint-Maurice, France 94410

The Researcher will study customary rituals of the Inuit. Specific work will focus on understanding historic Inuit roles and behaviors surrounding the birth of children with the co-operation of the Iqaluit Elders Society.

Region: Baffin
Locations: Iqaluit
File Number: 12 410 367

11134-N (1991)

Role of Arts and Crafts in Tourism and Economic Development

B.A. Stankiewicz

Officer of Human Resources
Room 3015, Needles Hall
University of Waterloo
Waterloo, Ontario N2L 3G1

The Researcher will examine the production, marketing and consumption of Northern arts and crafts. Artisans and craftsmakers in Yellowknife, Iqaluit and Pangnirtung will be consulted. Markets for Northern arts and crafts (co-operatives, stores, art galleries) will be surveyed. Tourists in the North and other purchasers in the South will also be interviewed.

Region: Baffin
Locations: Pangnirtung, Iqaluit and Yellowknife
File Number: 12 410 379

11200-N (1991)

Role of Latitude on Mating Systems in Notostraca

Elizabeth Straszynski

Watershed Ecosystems Graduate Program
Trent University
Peterborough, Ontario K9J 7B8

Tadpole shrimp (Notostraca) occur in ponds at all latitudes in Canada. Activity and behavior show differences between the sexes. Mating behaviour shows differences between the two latitudes already tested. Studies in southern and northern Manitoba (Portage la Prairie; Churchill) will be compared with those in the eastern Northwest Territories (Igloolik).

Region: Baffin
Locations: Igloolik
File Number: 12 402 456

10117 (1990)

Sanikiluaq Community Profile

Claude Saint-Maurice

SOMER Inc.
1134 St. Catherine Street West
Montreal, Quebec H3B 1H4

The Researchers will conduct a community profile and gain a better understanding of social relationships between Sanikiluaq and Kuujjuarakik (Great Whale). This study is related to the Grande Baleine (Great Whale) complex.

Region: Baffin
Locations: Sanikiluaq
File Number: 12 410 358

11100-N (1991)

Satellite Data to Detect and Monitor Vegetation Responses

Cheryl Pearce

Department of Geography
The University of Western Ontario
Social Sciences Centre
London, Ontario N6A 5C2

The Researcher will continue to determine what density of trees is necessary for detection by the satellite sensors, & determine what the densities of shrubs and herbs or dwarf shrubs and lichens are that change the reflectance patterns from the understory. To determine if the thresholds in density will be sensitive enough to monitor vegetation responses to climate change in the forest to tundra ecozones with satellites.

Region: Inuvik
Locations: Mackenzie River Basin
File Number: 12 402 342

11049-R (1991)

Satisfaction of N.W.T. Teachers Associated with Living in Rural N.W.T.

Arnold Krause

P.O. Box 1558
Yellowknife, N.W.T. X1A 2P2

This research will be conducted in the hope of creating some insight into how to improve or maintain levels of job satisfaction.

Region: ALL
Locations: every community in the Northwest Territories
File Number: 12 410 339

11005 (1991)

Sea Ice Optics

Gary Maykut

Department of Atmospheric Sciences
AK-40
University of Washington
Seattle, Washington, USA 98195

The Researcher & team will measure the shorefast ice next to the PCSP base at Resolute. They will monitor the amount of incoming light at the surface & within the ice. The data will be used to test a theoretical model for predicting light transmission through snow-ice-algae layers.

Region: Baffin
Locations: Resolute
File Number: 12 404 430

11126-N (1991)

Seasonal Sea Ice Monitoring Site (SIMS) in Lancaster Sound

David G. Barber

Earth Observations Laboratory
University of Waterloo
Waterloo, Ontario N2L 3G1

The researcher and his team will determine the type and range of information on sea ice geophysical parameters which can be extracted from the (SAR) Synthetic Aperture Radar imagery from aerial orbital platforms.

Region: Baffin
Locations: Barrow Strait - between Cornwallis and Somerset Islands
File Number: 12 404 371

10009 (1990)
11069-R (1991)

Sedimentology of Channel-fills and Point Bar Deposits

Derald G. Smith

Department of Geography
University of Calgary
Calgary, Alberta T2N 1N4

The Researcher and team will study the sediments (mud and sand) in river cutbanks to reconstruct the paleogeography (river history) of the Nahanni Butte topographic basin.

Region: Fort Smith
Locations: Nahanni Butte area

File Number: 12 404 274

10202 (1990)

Self-generated Economic Development in Native Communities

Peter Gardner

History and Political Economy
Royal Roads Military College
FMO Victoria, BC M0S 1B0

At the community level, the Researcher will investigate why economic development imposed through outside agencies may have failed in some communities. Native residents will be interviewed to determine whether they believe a social institution can evolve from their own culture which can effectively deal with the tradeoffs between sharing of income and profits and the need for saving and investment.

Region: IN/KI
Locations: Inuvik, Fort McPherson, Cambridge Bay and Tuktoyaktuk

11167-N (1991)

File Number: 12 410 371

Sexual Assault Sentencing Research Project Committee

Jim Posynik

c/o Box 1320
6th Flr Courthouse,
Policy and Planning Division
Yellowknife, N.W.T. X1A 2L9

The researchers will collect data from federal crown prosecutor's files and N.W.T. court files and will build from these sources of information a document which will give insight to legal professionals, policy makers and members of the public on how sexual assault cases have been viewed and handled.

Region: Fort Smith
Locations: Yellowknife

File Number: 12 410 333

10205 (1990)

Shallow Water Benthic Fish Community - Cornwallis Island

John M. Green

Department of Biology and MSRL
Memorial University
St. John's, Newfoundland A1B 3X9

Underwater observations will be made on benthic fishes at the study site by scuba, and some fish specimens will be collected for laboratory analysis of their food habits, growth rates and fecundity. Data will be compared with similar data collected on benthic fishes in northern Hudson Bay.

Region: Baffin
Locations: Cornwallis Island

File Number: 12 402 265

10181 (1990)

Shorebird and Waterfowl Nesting Habitat in the Mackenzie Delta, N.W.T.

Keith Roney

Curator - Entomology
Saskatchewan Museum of Natural History
2340 Albert Street
Regina, Saskatchewan S4P 3V7

The Researcher will gather information by aerial reconnaissance to take photographs of nesting areas; a ground study by boat to photograph and take notes on the habitat of nesting birds; a library search for information on the Mackenzie Delta and will conduct interviews with local researchers and residents for additional information.

Region: Inuvik
Locations: Mackenzie Delta area

File Number: 12 402 486

11097-N (1991)

Silurian Graptolites of the Arctic Islands

Alfred Lenz

Department of Geology
University of Western Ontario
Biological & Geological Building
London, Ontario N6A 5B7

The Researcher and his assistant will visit three sections on Cornwallis Island to collect graptolites in shales and limestone nodules as part of an ongoing project on the study of Silurian graptolites of the Arctic Islands.

Region: Baffin
Locations: Cornwallis Island

File Number: 12 404 098

10152-R (1990)
11155-R (1991)

Site Tenacity of Bowhead Whales

Susan Cosens

Department of Fisheries and Oceans
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba R3T 2N6

The Researcher and team will apply new tag technology and DNA analysis to a study of site tenacity and industrial disturbance of bowhead whales. They will test the feasibility of using sonic tags to track bowheads underwater and will be testing sampling methods for collecting skin from live whales for DNA analysis.

Region: Inuvik
Locations: Kay Point, Yukon North Slope; Aklavik

File Number: 12 402 397

10192 (1990)

Sleep Performance Under Conditions of Extreme Cold and Physical Exhaustion

Janice Newman

Ottawa General Hospital
501 Smyth Road
Ottawa, Ontario K1H 8L6

The Researcher will train 4 polar trekkers on performance tests and how to apply an electrocap (electrodes housed in a mesh cap). The participants will apply these techniques as they engage in a practice trek around the Iqaluit area.

Region: Baffin
Locations: Iqaluit, NWT

File Number: 12 402 480

11038 (1991)

Snow Melt Runoff in High Latitude Permafrost Basins

Phillip Marsh

National Hydrology
Research Institute
11 Innovation Blvd
Saskatoon, Sask. S7N 3H5

The research project will include measuring the amount of snow on the ground, changes in snow properties during spring melt, weather conditions and runoff in nearby rivers. The purpose of the project is to improve ability to predict snowmelt runoff to rivers and lakes in Northern Canada.

Region: IN/BA
Locations: Inuvik, Mackenzie Delta Region; Resolute Bay;

File Number: 12 404 378

10056 (1990)

Social and Environmental Impacts of the Proposed Kiggavik Uranium Mine

Marianne Demmer

1485 Baseline Road
Apartment 914
Ottawa, Ontario K2C 3L8

The Researcher will conduct interviews with key people involved in the events that have occurred to date in the environmental assessment review process of the proposed Kiggavik uranium mine. She will identify the concerns and interests of people in the communities involved and separate the shades of opinion held by various groups.

Region: Keewatin
Locations: Baker Lake; Rankin Inlet

File Number: 12 410 330

10191 (1990)

Social Impacts of Eco-Tourism in NWT - A Preliminary Reconnaissance

Sabine Tamm

Outdoor Recreation Department
Lakehead University
955 Oliver Road
Thunder Bay, Ontario P7B 5E1

The researcher will carry out a project to develop a framework for social impact studies of eco-tourism in the NWT by interviewing Federal and Territorial government officials, commercial outfitters and Chambers of Commerce representatives to obtain their views on the range of social impacts which can be properly attributed to eco-tourism.

Region: Fort Smith
Locations: Yellowknife and Fort Smith

File Number: 12 410 322

10160 (1990)

Social Policy and Conflicting Social Welfare Ideologies, NWT

Andrew Webster

391 Parkhill Rd. W.
Peterborough, Ontario K9H 3J2

Mr. Webster will conduct directed and undirected interviews with representatives of concerned interest groups in Snowdrift. His data sampling will be limited to groups and organizations. He will also review social policy procedure manuals. This is the first year of a two year research project.

Region: Fort Smith
Locations: Snowdrift, N.W.T.

File Number: 12 404 298

10069 (1990)

Socioeconomic Analysis of a Modern Dene Community

Ingrid Diana Kritsch

c/o Trout Lake Dene Band
via Ft. Simpson
Trout Lake, N.W.T. X0E 0N0

The Researcher will live in the community of Trout Lake for 14 months. During that time, she will write a general ethnography of the Trout Lake people with a particular emphasis on the economy and the social networks within the community.

Region: Fort Smith
Locations: Trout Lake, N.W.T.

File Number: 12 410 311

10059 (1990)

Socioeconomic Impacts of Reindeer Herding on Traditional Inuit Culture

David Collin

339 London Street
Peterborough, Ontario K9H 2Z6

This study will examine the social and economic impacts of Canada's only commercial reindeer operation upon traditional patterns of hunting and fishing of the Inuvialuit. The impact of technology and transportation upon the operations will also be examined.

Region: Inuvik
Locations: Tuktoyaktuk

File Number: 12 410 329

10187 (1990)

SOFAR Technology in the Canadian Arctic

Ron G. Perkin

Institute of Ocean Sciences
Ocean Physics
9860 West Saanich Road
Sidney, B.C. V8L 4B2

Three drifters, called SOFAR (SOund Fixing and Ranging) floats will be ballasted to sink to 1000m and 500m in the ocean. They will be tracked for a period of one year by four underwater listening stations moored along the 700m depth contour northwest of Amundsen Gulf.

Region: Inuvik
Locations: Southern Beaufort Sea

File Number: 12 404 261

11131-D (1991)

Soil Algae in High Arctic Ecosystem Development

Lawrence C. Bliss

Department of Botany
KB-15
University of Washington
Seattle, Washington, USA 98195

Professor Bliss and his team will continue to research the role of soil algae in high arctic ecosystem development.

Region: Baffin
Locations: Truelove Lowland, Devon Island

File Number: 12 404 073

11124-R (1991)

Southern News Reporting Techniques in the Northern Canadian Context

Susan Schutta

5210 Ada Blvd
Edmonton, AB T5W 4N6

Ms. Schutta will interview southern trained news gatherers and disseminators, i.e. television and radio news programme hosts, newspaper, television and radio news reporters and members of the native community. Interviews will focus on the applicability of southern ideas of what constitutes news in the context of northern culture.

Region: Fort Smith
Locations: Yellowknife, N.W.T.

File Number: 12 410 314

10065 (1990)

Soviet Field Research in the Western Arctic

Vladimir Boyko

c/o Regional Director
Government of the Northwest Territories
Inuvik, N.W.T. X0E 0T0

These researchers will carry out a part of the program of cooperation between Canada and the USSR on the economic and socio-cultural development of the native peoples of the North. They will conduct a cross-cultural and cross-societal analysis using questionnaires, observation, interviews, participation and discussion.

Region: Inuvik
Locations: Inuvik and area

File Number: 12 410 356

11098-N (1991)

Spatial Dynamics of the Distribution of the Genus Dryas

Alain P. Roy

Department of Geography
University of Ottawa
165 Waller Street
Ottawa, Ontario K1N 6N5

Mr. Roy will carry out field work in the MacKenzie Mountains, Macmillan Pass & Tungsten areas. At each site he will examine the vegetation & soil. Dryas specimens will be collected. He will examine other plants of the community, & a small soil sample approximately 200 grams will be taken.

Region: Fort Smith
Locations: Mackenzie Mountains, Selwyn Mountains, Macmillan Pass and Tungsten areas

File Number: 12 404 356

10024-R (1990)

Spatial/Temporal Structure-Compression of Wave Speed/Attenuation in Sea Ice

S.D. Rajan

Woods Hole Oceanographic Institution
Bigelow 302
Woods Hole, MA., U.S.A. 02543

Mr. Rajan and his team will be studying how sound waves are carried under sea ice. They will drill a pair of holes a known distance apart, a sound source will be placed in one hole and a receiver in another. They will measure the time taken for the sound pulse to travel from one hole to another in order to determine the sound speed.

Region: Kitikmeot
Locations: Resolute and Griper Bay area

File Number: 12 404 352

10004-R (1990)

Speciation and Historical Biogeography of Collared Lemmings in North America

Judith Eger

Department of Mammalogy
Royal Ontario Museum
100 Queen's Park
Toronto, Ontario M5S 2C6

The investigators will study the chromosomal and genetic variation in collared lemmings to assess the effect of isolation of different populations in glacial refugia. They will compare this species with the brown lemming.

Region: M
Locations: Muskox River Site, Banks Island, Igloolik and Iqaluit

File Number: 12 402 488

11153-L (1991)

Species Changes Along a Gradient From Subarctic Forest to Tundra

Gregory Henry

Department of Geography
University of Alberta
Edmonton, Alberta T6G 2H4

Using the latitudinal treeline, the Researchers will examine plant communities in forest, treeline and tundra communities. They will determine locations for permanent plots to monitor long-term changes in vegetation as a response to predicted global warming.

Region: Inuvik
Locations: Horton-Anderson River area

File Number: 12 402 421

11170-D (1991)

Specific Allele Frequencies in the Inuit Population

Lorne T. Kirby

UBC Department of Pathology
c/o B.C.'s Children's Hospital
4480 Oak Street - Rm 2F22
Vancouver, B.C. V6H 3V4

Application Cancelled

DNA (hereditary material) will be isolated from blood cells normally thrown away after plasma tests at Stanton Yellowknife Hospital. The names will be unknown. Results will be added to an existing data bank which includes DNA information on Inuit, Caucasian, Oriental and other cultural groups. This information can be used to study events such as the migration of Inuit or to compare the evolution of different populations.

Region: Fort Smith
Locations: Yellowknife

11140-N (1991)

File Number: 12 408 086

SPOT Data to Map Ground Cover in the Canadian High Arctic

Tammy Jetty

Department of Geography
The University of Western Ontario
London, Ontario N6A 5C2

The Researcher will carry out fieldwork in association with Dr. Cheryl M. Pearce. The study will investigate if the the response of arctic surfaces to climate changes can be detected, monitored and mapped using space imagery.

Region: Baffin
Locations: Truelove Lowland, Devon Island

File Number: 12 402 482

11051-N (1991)

Spray Ice-Rubble Research Project

Jeff Weaver

ESSO Resources Canada Limited
3535 Research Road NW
Calgary AB T2L 2K8

The research team will spray a small area of grounded rubble with sea water and measure the sliding resistance of the rubble. They will measure ice loads on the rubble, the horizontal movement of the landfast ice sheet and the rubble field.

Region: Inuvik
Locations: North of Tuktoyaktuk (Offshore)

File Number: 12 404 387

11004 (1991)

Spring Field Camp: Geology, Climatology and Limnology

Lin Maus

Environmental Technology Program
Arctic College
Box 600
Iqaluit, NWT X0A 0H0

The project instructors will give students exposure to field methodologies involved in water, snow and ice environments.

Region: Baffin
Locations: York Sound, Long Lake GR1

File Number: 12 404 416

11043 (1991)

STAY IN SCHOOL RESEARCH PROJECT

Lois Little

Lutra Associates Ltd.
Box 1866
Yellowknife, NWT X1A 2P4

The Researchers will interview students (ages 12 to 18 years) identified by Divisional Boards or local Education Councils/Authorities as at risk of leaving school before completing grade 12, and those students in this age group who have already left school. The study will determine what influences affected their decision to leave school.

Region: ALL
Locations: Hay River, Yellowknife, Ft. Liard, Ft. Franklin, Aklavik, Gjoa Haven, Arviat, Clyde River, Pangnirtung, Rae-Edzo

File Number: 12 410 306

11031 (1991)

Stratigraphy and Sedimentology of Jurassic-Cretaceous Strata

James Dixon

3303 - 33rd Street NW
Calgary, Alberta T2L 2A7

The Researchers will examine, measure and record details of specific rock units in the Northern Richardson Mountains using a helicopter to visit a number of sites.

Region: Inuvik
Locations: Northern Richardson Mountains

File Number: 12 404 421

11075-N (1991)

Stratigraphy, Sedimentology and Palynology Kanguk Formation

L.V. Hills

Department of Geology and Geophysics
The University of Calgary
2500 University Drive NW
Calgary, Alberta T2N 1N4

The Researchers will study the Kanguk Formation , the last major marine transgression into the Sverdrup Basin, & establish the age & environment in which the sediments were deposited. Organic matter will be analyzed to determine the petroleum generation potential of the formation.

Region: Baffin
Locations: Glacial Fiord, Axel Heiberg Island; Fosheim Peninsula, Vesle Fiord Area, Ellesmere Island

File Number: 12 404 413

11160-N (1991)

Stratigraphy, Sedimentology, Paleontology, Paleomag./Quaternary Stratigraphy

Jean-Serge Vincent

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

A camp will be set up on northwestern Bands Island (Ballast Brook). Sections along rivers and the coast will be examined by the various researchers to determine the nature of the various sediments and their fossil content.

Region: Inuvik
Locations: Banks Island

File Number: 12 404 258

10103 (1990)

Stress Tolerance for Flowering Plants in Extreme Polar Desert

Josef Svoboda

Department of Biology
Erindale Campus
University of Toronto
Mississauga, Ontario L5L 1C6

The Researcher will continue an ongoing program in Sverdrup Pass: Ecology of polar oases. The study will assist in understanding the origin, development, maintenance and future of these isolated ecosystems in the midst of a polar desert.

Region: Baffin
Locations: Sverdrup Pass, Ellesmere Island
File Number: 12 402 126

11144-R (1991)

Structural and Stratigraphic Analysis of the Canadian Beaufort Sea Margin

Larry Lane

Research Scientist
Institute of Sedimentary and Petroleum Geology
3303 -33rd Street N.W.
Calgary, Alberta T2L 2A7

The Researcher will collect a suite of rock samples and will continue a detailed structural mapping project showing the geological structures and rock types exposed in the Anker Creek area.

Region: Inuvik
Locations: Blow River Area, Canadian Beaufort Sea Margin
File Number: 12 404 312

11053-R (1991)

Studies of the Environmental Effects of Disturbances in the Subarctic (SEEDS)

Peter Kershaw

Department of Geography
University of Alberta
Edmonton, Alberta T6G 2H4

The fieldwork will be carried out to investigate what happens after the surface of the land is changed by clearing of the trees, trenching of the soil or spilling of crude-oil. Ways to lessen these disturbances will be tested to see which are best.

Region: Fort Smith
Locations: Fort Norman, NWT
File Number: 12 404 116

10185 (1990)

Suicide and Alcohol in a Gwich'in Dene Society

Stan Hunnisett

c/o Peel River Alcohol Society
Ft. McPherson, NWT X0E 0J0

Under the direction of the Peel River Alcohol Society and Fort McPherson Concerned Citizens Committee a community based research project will be established. This research will attempt to understand why Fort McPherson has such a high suicide rate. It is hoped that once an understanding of the reason(s) is established then plans can be made to lower the rate of suicide.

Region: Inuvik
Locations: Fort McPherson
File Number: 12 410 335

10211 (1990)
11030-R (1991)

Surficial Geology of the Canadian Beaufort Continental Shelf

Steve Blasco

Geological Survey of Canada
Bedford Institute of Oceanography
Box 1006
Dartmouth, Nova Scotia B2Y 4A2

The amphibious vehicle will be mounted with an echosounder, sidescan sonar, subbottom & seismic profiling equipment to run a test survey along the coast of the Tuktoyaktuk Peninsula. The CCGS NAHIDIK will tow a sidescan sonar system over the seafloor to rerun track lines surveyed in previous years to allow for the detection & measurement of the characteristics of new scours on the seafloor of the central Beaufort shelf.

Region: Inuvik
Locations: Beaufort Sea: cont. shelf N. of Rich. Is. & the Tuk. Peninsula
File Number: 12 404 407

10195 (1990)

Surficial Geology, Southern Melville Peninsula

Lynda Dredge

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

The Researchers will be undertaking systematic reconnaissance mapping as part of the national program for the Geological Survey of Canada. They will collect soil and rock samples for analysis in Ottawa.

Region: Baffin
Locations: Melville Peninsula

File Number: 12 404 286

11091-R (1991)

Taxonomy and Paleoecology of Upper Devonian Brachiopods

Linda Stanton

11443-77 Avenue
Edmonton, Alberta T6G 0L9

The Researcher and her assistant will identify and analyse fossil shells from the rocks that occur along the Hay River.

Region: Fort Smith
Locations: various localities along Hay River

File Number: 12 404 403

10166 (1990)

Teaching and Mainstreaming Experience: Teachers' Self-Described Views

Laura Slater

2413 Ravensthorpe Crescent
Mississauga, Ontario L5C 2Y4

The Researcher will interview twenty teachers from the communities about their views on mainstreaming. The project will determine if teachers are more positive or negative in their views about mainstreaming.

Region: MULTI
Locations: Yellowknife, Rae Edzo, Detah, Iqaluit, Lake Harbour, Hall Beach, Igloolik

File Number: 12 410 351

11060-N (1991)

Tectonomagmatic Evolution of the Sverdrup Basin, Canadian Arctic Archipelago

Gunter K. Muecke

Department of Geology
Dalhousie University
Halifax, Nova Scotia B3H 3J3

The Researcher and assistants will investigate the field relations, petrology, mineralogy, geochemistry, and geochronology of magmatic rocks of the northern Canadian Arctic Islands.

Region: Baffin
Locations: Northern Queen Elizabeth Islands

File Number: 12 404 358

10153 (1990)

Tertiary Palynostratigraphy of the Beaufort-Mackenzie Basin

David J. McIntyre

Institute of Sedimentary and
Petroleum Geology
3303 - 33rd Street
Calgary, Alberta T2L 2A7

The Researcher and his assistant will collect rock samples for study of the fossil pollen to determine age, correlation with similar material from wells and to determine past climate and environments.

Region: Inuvik
Locations: Caribou Hills, Mackenzie Delta

File Number: 12 404 397

10150 (1990)

Thinking Styles of Northern Nurse Practitioners

Karen Graham

#109 - 492 Range Lake Road
Yellowknife, N.W.T. X1A 3G4

The Inquiry Mode Questionnaire of Harrison and Bramson will be sent to all nurses in Outpost Health Centres presently in the N.W.T. and to any nurses who have left. The results will be compared with a study on the thinking styles of urban hospital nurses.

Region: ALL
Locations: All Regions of the N.W.T.

File Number: 12 408 074

10041-R (1990)
11077-R (1991)

Tokyo Sea Life Park Collection, 1991

Tsunesuke Nakayama

Director
Tokyo Sea Life Park
Tokyo, 134, Japan

Staff from the Tokyo Sea Life Park will collect fish and invertebrates to transport to Japan. Divers will collect benthic fishes, fishes living near the bottom and invertebrates. Other methods of collection will involve, hand net, bait trap, and hook and line. Approximately 90 fishes and 100 invertebrates of different species will be included in the sampling.

Region: Baffin
Locations: vicinity of Resolute

File Number: 12 402 493

11197-N (1991)

Traditional and Contemporary Forms: Hide Tanning and Porcupine Quill Work

Morgan Baillargeon

511 Wilbrod St.
Ottawa, Ontario K1N 5R4

The research will address issues pertaining to the endangerment of traditional art forms and practices specific to hide tanning and porcupine quill work. Additionally, the researcher will examine the difficulty in obtaining raw materials and the social implications related to the loss of these art forms.

Region: Fort Smith
Locations: Ft. Liard; Ft. Providence

File Number: 12 410 338

11001 (1991)

Traditional Childbirth Practice Research

Betty-Anne Davies-Pott

Burnstown
Box 3924 Station C
Ottawa, Ontario K1Y 4M5

The Researcher and her associate will continue to collect and document traditional Inuit childbirth practices and will distribute their findings to Inuit communities.

Region: Baffin
Locations: Iqaluit and Cape Dorset

File Number: 12 408 081

11018-R (1991)

Traditional Music and Games of the Athapascan Peoples

Nicole Beaudry

65 Kindersley
Montreal, Quebec H3R 1P8

Ms. Beaudry will continue the work she began in 1988 in the communities of Fort Franklin and Fort Norman. In addition, through the invitation of the community of Fort Good Hope her research this year will encompass this community as well. She will be conducting interviews with elders and making recordings where appropriate.

Region: Inuvik
Locations: Fort Franklin, Fort Norman and Fort Good Hope

File Number: 12 410 232

10221-R (1990)

Trophic Relationships and Energetics of Arctic Cod

Haakon Hop

Department of Zoology
CW-312 Biological Sciences Building
University of Alberta
Edmonton, AB T6G 2E9

Mr. Hop and his assistants will collect Arctic cod by trawls and trap nets. Samples of these and other fish will be taken back to the University of Alberta for study.

Region: Baffin
Locations: Resolute Bay and adjacent bays on Cornwallis Island, and bays on Devon Island

File Number: 12 402 417

10076-R (1990)
11013-R (1991)

Tuktoyaktuk Traditional Knowledge Project

Elisa J. Hart

Prince of Wales Northern Heritage Centre
Government of the Northwest Territories
Box 1320
Yellowknife, NWT X1A 2L9

The Researcher will carry out interviews with elders to elicit information on heritage sites considered significant to the Inuvialuit and that warrant protection should development occur. Information will also be gathered on traditional land use, in terms of how people decided where and when to move and the activities carried on at different localities.

Region: Inuvik
Locations: Tuktoyaktuk

File Number: 12 410 363

11111-N (1991)

Tungatsivvik Archaeological Project

Douglas Stenton

c/o Environmental Technology Program
Arctic College
Box 1000
Iqaluit, NWT X0A 0H0

Community-based, this project will provide training for northern students and others interested in learning to conduct anthropological research which is focused on archaeology. Learning will include basic techniques used by archaeologists to study Inuit heritage. Instruction will be given to show the proper way to care for artifacts.

Region: Baffin
Locations: Peterhead Inlet, Baffin Island

File Number: 12 410 160

11150-R (1991)

Tutelage of Crime: Dependency and Deviance in Iqaluit, N.W.T.

Allan L. Patenaude

871 Lanky Court
Yellowknife, NWT X1A 2G4

The Researcher will conduct a descriptive study to explore the relationship between the dependency created by the educational, social welfare and criminal justice systems of the Euro-Canadians and crime among Inuit of the Eastern Arctic community of Iqaluit.

Region: Baffin
Locations: Iqaluit

File Number: 12 410 332

10201 (1990)
11180-R (1991)

U-Pb Geochronology/Isotope Systematics of Kimberlites-their Mantle Zenoliths

Larry Heaman

Royal Ontario Museum
100 Queen's Park
Toronto, Ontario M5S 2C6

A geological investigation of kimberlites on the NE side of Somerset Is. Collection of samples of Somerset Is. kimberlites to provide information concerning their timing, origin and isotopic evolution. The data will be added to a N. American database for a better understanding of the isotopic nature of the Earth's mantle on a global scale.

Region: Baffin
Locations: Eastern side of Somerset Island between Elwin Bay and Creswell with a concentration about 20 km northwest of Batty Bay

File Number: 12 404 391

10127 (1990)

ULU GOLD PROJECT

Richard D. Couture

Fisheries Biologist
Rescan Environmental Services
510 - 11 West Hastings Street
Vancouver, B.C. V6E 2J3

The Researchers will conduct a sampling program to describe the current state of the fisheries resources in the Rio Fido - Frayed Knots River drainage.

Region: Kitikmeot
Locations: Hood River area, in the drainage of the Rivers known familiarly as Rio Fido and Frayed Knot

File Number: 12 402 496

11206-N (1991)

Upgrade of the Sexually Transmitted Disease Database in the NWT

Anne Jolly

AIDS Researcher
G.N.W.T. Department of Health
Box 1320
Yellowknife, N.W.T. X1A 2L9

In accordance with the Communicable Disease Regulations under the Public Health Act, the researcher will review and update the existing database on sexually transmitted diseases in the Northwest Territories.

Region: Fort Smith
Locations: Yellowknife

File Number: 12 408 077

10006 (1990)

Upper Beaulieu River Project

Michael Stubley

Energy, Mines and Petroleum Resources
Government of the Northwest Territories
Box 1320
Yellowknife, NWT X1A 2L9

The researcher and his team will examine, document and sample surface outcrops in the study area. This information will be recorded on a map which will assist to identify mineral resources and the existence of precious or base metal deposits.

Region: Fort Smith
Locations: McCrea Lake and area 160 km NE of Yellowknife, N.W.T.

File Number: 12 404 382

10080 (1990)

Upper Cretaceous Fossils from within Northern Canada

J. Wyatt Durham

Professor Emeritus of Paleontology
Museum of Paleontology
University of California, Berkeley
Berkeley, CA 94720

The Researchers will collect fossil shells and make geological observations on the rocks exposed in the roadcuts and adjacent areas along the Dempster Highway as it descends to the floodplain of the Peel River at the ferry crossing approximately 10 kilometers south of Ft. Macpherson.

Region: Inuvik
Locations: Alongside the Dempster Hwy as it descends to the floodplain of the Peel River, at the ferry crossing south of Ft. Macpherson

File Number: 12 404 377

10050 (1990)

Upper Paleozoic Basin Analysis of Sverdrup Basin

Benoit Beauchamp

Geological Survey of Canada
3303-33rd Street NW
Calgary, AB T2L 2A1

The Researcher and team will measure thickness of strata and collect rock samples from various localities on northwestern Ellesmere Island. The purpose of the work is to understand and reconstruct the geography of the area between 325 and 245 million years ago.

Region: Baffin
Locations: NW Ellesmere Island, Otto Fiord Area

File Number: 12 404 428

11119-N (1991)

Upper Silurian Carbonate Buildups of Eastern Cornwallis & SW Devon Islands

Owen A. Dixon

Faculty of Science - Geology
University of Ottawa
161 Louis Pasteur
Ottawa, Ontario K1N 6N5

The Researcher will study sedimentary rocks and fossils formed more than 400 million years ago. As well, fossil groups such as corals and sponge-like animals that are not known in modern seas will be studied.

Region: Baffin
Locations: Southwestern Devon Island and Eastern Cornwallis Island

File Number: 12 404 135

10038 (1990)

Urban Planning and Life Between the Houses

Inngi Bisgaard

Box 16
DK-3921
Narsaq, Greenland DK-3921

The Researcher will continue to study urban planning in arctic areas. This field season investigation will include how people use outdoor spaces in relation to weather, destinations and playgrounds.

Region: Inuvik
Locations: Inuvik

File Number: 12 406 022

11189-R (1991)

Volcanic Rocks of the Belcher Islands

Don Francis

Department of Geological Sciences
McGill University
3450 University Street
Montreal, Quebec H3A 2A7

The researcher and his team will carry out fieldwork which includes geological mapping and the collection of approximately 200 fist-sized rock samples for chemical analysis at McGill University. this work is a part of a three year research project which is designed to evaluate the meteoritic origin of the Hudson Bay Arc.

Region: Baffin
Locations: Belcher Islands

File Number: 12 404 303

10136-R (1990)

Volcanic Studies in the Circum-Ungava Belt

Robert Baragar

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

The Researchers will survey and sample exposures of suspected carbonatites discovered after field work in 1985.

Region: Baffin
Locations: Akvlivik Quebec, 80-100 km SE

File Number: 12 440 449

11211-L (1991)

Walrus Behaviour

R.E.A. Stewart

Department of Fisheries and Oceans
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba R3T 2N6

The Researcher and his team will conduct tests to develop knowledge or techniques to improve population surveys. Four to six male walrus will be immobilized and attached with radio or beeper tags. Measurements and blood samples will be taken. After recovery their movements will be tracked. Walrus faces will be photographed to use tusk measurements as an indicator of age and gender.

Region: Keewatin
Locations: Coats Island

File Number: 12 402 119

10203 (1990)

Walrus Hunt Monitoring Program

Jack Orr

Department of Fisheries and Oceans
501 University Crescent
Winnipeg, Manitoba R3T 2N6

The Researcher and associate will continue to study walrus hunting activities of hunters. The information will be used to determine the biological and economical value of walrus hunting in the community of Igloolik.

Region: Baffin
Locations: Igloolik, NWT

File Number: 12 402 490

11158-N (1991)

Winter Arctic Field Studies

William G. Howland

Director
Northern Studies Program
Middlebury College
Middlebury, Vermont, U.S.A. 05753

Professor Howland will carry out a winter field course for students of the Northern Studies Program of Middlebury College in Vermont, U.S.A. Using the Research Centres in Igloolik and Iqaluit, students will study polar physical conditions of the Arctic environment in winter.

Region: Baffin
Locations: Igloolik and Iqaluit, N.W.T.

File Number: 12 404 310

10005 (1990)

Women in Trades

Lois Little

Lutra Associates Ltd.
Box 1866
Yellowknife, NWT X1A 2P4

The Researcher will carry out a needs assessment. Interviews will be conducted with 30 employers, organizations and tradeswomen. A small sample of men working in trades will also be interviewed.

Region: ALL
Locations: Across the N.W.T.

File Number: 12 410 306

10026 (1990)

Yukon North Slope Cultural Resources Survey

Murielle Nagy

11032 - 88th Avenue
Edmonton, AB T6G 0Z2

With the Inuvialuit Social Development Program, the Researchers will gather oral history concerning the lives of Inuvialuit along the Yukon North Slope. They will document post-contact aboriginal land use as recorded in historic sites, graves, resource extraction areas, caches, look-outs, trails, place names and gathering places in the Yukon North Slope.

Region: Inuvik
Locations: Inuvik, Aklavik and Tuktoyaktuk

File Number: 12 410 373

11178-N (1991)

Prince of Wales Northern Heritage Centre Research Permits Archaeology 1990/1991

PRINCE OF WALES

The Prince of Wales Northern Heritage Centre is responsible for issuing all permits for archaeological studies in the Northwest Territories. Staff archaeologists protect archaeological resources by monitoring activities which could disturb sites or artifacts. Their research adds to the knowledge of northern cultures, both past and present.

For more information
please contact
Prince of Wales Northern Heritage Centre
Department of Culture & Communication
Government of the NWT
Box 1320
Yellowknife, NT X1A 2L9
Phone (403) 873-7551
Fax (403) 873-0205

Andrews, Tom

Prince of Wales Northern Heritage Centre
GNWT
Box 1320
Yellowknife, NT X1A 2L9
PWNHC Permit #90-695

The research team will assess the impact of construction projects begun in the general area of five historic building foundations at the opposite end of the community from the Franklin occupation in Fort Franklin. Local oral tradition attributes the ruins to Old Betsidea in the last half of the nineteenth century, or the Prophet Ahya and his followers, again in the last half of the nineteenth century.

Andrews, Tom

Prince of Wales Northern Heritage Centre
GNWT
Box 1320
Yellowknife, NT X1A 2L9
PWNHC Permit #91-705

The research team surveyed a portion of the traditional trail which links Great Slave and Great Bear Lakes. The work concentrated on the northern half of the trail, following the Camsell River and a chain of lakes between Rae Lakes and Great Bear. All the traditional sites visited showed evidence of long occupation.

Arnold, Charles D.

Prince of Wales Northern Heritage Centre
GNWT
Box 1320
Yellowknife, NT X1A 2L9
PWNHC Permit #91-708

The research team engaged in excavations at a site on McKinley Bay, about 100 kilometres northeast of Tuktoyaktuk. Depressions in the ground surface mark the locations of at least eleven houses. A navigation beacon had been built on top of the largest house. Debris from the abandoned beacon was removed, the site was mapped, and test excavations were made in one of the depressions.

Beattie, Owen

University of Alberta
Edmonton, AB T6G 2E9
PWNHC Permit #90-692
PWNHC Permit #91-712

The research team will survey and excavate sites on Quartzite Island relating to the James Knight expedition of 1719-21 in order to locate and record sites from this expedition and to investigate the reasons for its failure. Once all of the artifacts, drawings, and photographs are analysed it will be possible to construct a model replica of the house as it may have looked in 1719.

Bertulli, Margaret

Prince of Wales Northern Heritage Centre
GNWT
Box 1320
Yellowknife, NT X1A 2L9
PWNHC Permit #90-681

The research team carried out a brief excavation at a Thule winter village at the North Pole River. They also inspected Fort Hope, a stone building made by John Rae and his men as winter quarters in 1846. Measurements and photographs of the building were taken to document its condition and to determine how quickly the building is deteriorating.

Bertulli, Margaret

Prince of Wales Northern Heritage Centre
GNWT
Box 1320
Yellowknife, NT X1A 2L9
PWNHC Permit #91-707

The researcher engaged in a brief walking and helicopter survey of a mineral exploration claim, and one small site of tent rings was found.

Fitzhugh, William

Smithsonian Institution
Washington, DC 20560 USA
PWNHC Permit #90-689

The research team performed a survey of southeast Frobisher Bay, particularly Countess of Warwick Sound and Cyrus Field Bay, and located a number of Frobisher's "gold" mines. They also found sites of the Pre-Dorset, Dorset, Thule and Historic Inuit cultures.

Fitzhugh, William

Smithsonian Institution
Washington, DC 20560 USA
PWNHC Permit #91-710

The research team excavated three structures at the archaeological site of Kuyait. These date to the Thule period (about AD 1400), the early historic and late nineteenth centuries. The artifact and animal remains show the transition from pre-contact to recent times through changes in artifact types, adaptations to European materials, and changes in architectural designs of houses as Inuit society responded to varying degrees of European contact.

Friesen, David

Bison Historical Services
PWNHC Permit #91-714

The researcher surveyed the locations of the areas in which NorthwesTel Inc. proposes to install five microwave towers and three access roads. No evidence of past human activities and no heritage sites were found at the locations surveyed by the field team. Local people also indicated that no traditional sites occurred near the proposed development.

Friesen, Max

McGill University
805 Sherbrooke Street W.
Montréal, PQ H3A 2K6
PWNHC Permit #91-704

The research team travelled to the Aberdeen Lake region to search for archaeological sites in the area of the proposed Kiggavik uranium mine. This survey was part of the environmental impact assessment to mark and record all of the archaeological sites so that they can be left undisturbed by mining crews.

Hankinson, K.W.

Operations Wing
RAF Valley
Holyhead, Gwynedd
UNITED KINGDOM
PWNHC Permit #91-719

The researcher surveyed the coastline of Esayoo Bay for Palaeo-Eskimo remains. Mapping of structures was done, but no excavation or recovery of artifacts was undertaken.

Hanks, Christopher

Canadian Parks Service
Box 1166
Yellowknife, NT X1A 2N8
PWNHC Permit #90-694

The research team will become familiar with the areas of Grizzly Bear Mountain and the Scented Grass Hills near Great Bear Lake, which have been identified by the community of Fort Franklin as places that should be protected because of their historic and sacred significance to the Sahtu Dene.

Hart, Elisa

Prince of Wales Northern Heritage Centre
GNWT
Box 1320
Yellowknife, NT X1A 2L9
PWNHC Permit not required

The research team interviewed 21 elders in Tuktoyaktuk to learn about aspects of traditional life that are useful to the study of archaeology and for the identification of other types of heritage sites in the area.

Helmer, James

University of Calgary
Calgary, AB T2N 1N4
PWNHC Permit #90-682

The research team assessed two large late Dorset village complexes on the east coast of Little Cornwallis Island. They completed a detailed map of both sites and recorded descriptions of most of the features.

Karklins, Karlis

Canadian Parks Service
Box 1166
Yellowknife, NT X1A 2N8
PWNHC Permit #91-718

The research team conducted a survey of the proposed national park at Wager Bay. Over 200 pre-contact/post-contact Inuit sites and two Euro-Canadian sites were located. Of these, thirteen were visited and the features recorded and photographed. The Inuit sites, several of which were quite large and contained several hundred features, covered the period from Thule to modern times.

Kennett, Brenda

Fedirchuck McCullough & Assoc. Ltd.
RR #3
MABERLY, ON K0H 2B0
PWNHC Permit #90-685

The research team conducted an archaeological assessment of the area around Distant Early Warning Line (DEW Line) stations in the Western Arctic as part of a larger environmental study about the decommissioning of these installations. The purpose of the study is to assess possible disturbance to historic resources that could result from the abandonment of these stations and to suggest ways in which the disturbance could be lessened.

Mary-Rousselière, Father Guy

Roman Catholic Mission
Pond Inlet, NT X0A 0S0
PWNHC Permit #90-690

The research team will record features at the Sikudjivik Site on the south coast of Bylot Island, inspect the Saatut and Nunguvik Sites and collect a musk-ox skull from Baffin Island.

McGhee, Robert

Canadian Museum of Civilization
100 Laurier Street
Box 3100, Station B
Hull, PQ J8X 4H2
PWNHC Permit #91-700

The research team undertook an assessment of Kodlunarn Island at the eastern end of Frobisher Bay. This small island was headquarters of the English Expeditions led to the area by Sir Martin Frobisher in 1577 and 1578. The English dug two large mines, and planned to establish the first English colony in the New World on this island. A few remains of food and other materials which had been buried when the English left the island were recovered.

Morrison, David

Canadian Museum of Civilization
100 Laurier Street
Box 3100, Station B
Hull, PQ J8X 4H2
PWNHC Permit #91-696

The research team continued work on Inuvialuit archaeology in the Western Arctic. Many traditional Inuvialuit tools were recovered from a site at Gutchiak, an important fishing and hunting site on the Eskimo Lakes. The style of the tools and the absence of European trade goods indicates that the site was occupied during some part of the period between about 200 and 600 years ago.

Pilon, Jean-Luc

Archaeological Survey of Canada
Canadian Museum of Civilization
100 Laurier Street
Box 3100, Station B
Hull, PQ J8X 4H2
PWNHC Permit #90-688

The research team continued excavations at a site on Hyndman Lake where microblades had been found in 1987 and 1988. This site is the only one in the southwest Anderson Plain where archaeologists have found these long, slender stone flakes. This specialized kind of stone working could be thousands of years old and might represent a campsite or workshop used by some of the earliest people to live in this region. As well, the team endeavoured to locate evidence that people of the Arctic Small Tool tradition had used the region.

Pilon, Jean-Luc

Archaeological Survey of Canada
Canadian Museum of Civilization
100 Laurier Street
Box 3100, Station B
Hull, PQ J8X 4H2
PWNHC Permit #91-698

The research team continued work in the Travaillant Lake region of the southwest Anderson Plain. Discoveries ranged from the 3500 year old campsite of people of the Arctic Small Tool tradition to a stone axe manufacturing area outside a late prehistoric Gwich'in house pit dating to 400-500 years ago. One artifact, the base of a broken stone spear point, could be as much as 7000 years old.

Pokotylo, David

University of British Columbia
Vancouver, BC V6T 2A9
PWNHC Permit #90-691

The research team studied how the residents of a traditional camp at Willowlake River make and use chipped stone tools. They also surveyed the lower Keele River-Drum Lake area of the Mackenzie Mountains by helicopter to find sources of stone suitable for making tools. The main goal of the project was to gather information on the past and present use of stone tools in traditional Dene activities.

Rowley, Susan

University of Alberta
Edmonton, AB T6G 2E9
PWNHC Permit #90-679

The research team tested a four hundred square metre area of a late Dorset site on Igloolik Island, and excavated 35 square metres, about three-quarters, of one dwelling. Over 228 artifacts, including six harpoon heads, a carving of a two-headed weasel and pieces of an antler box were recovered.

Rowley, Susan

University of Alberta
Edmonton, AB T6G 2E9
PWNHC Permit #91-697

The research was the work of the second year of the Igloolik Archaeology Project's high school field course. Students received instruction in the making of stone tools by George Qulaut, which helped identify stone tools when excavating and provided an appreciation of the tool-making ability of Palaeo-Eskimos. The students completed excavation of a dwelling in a Late Dorset site on Igloolik Island.

Rowley, Susan

University of Alberta
Edmonton, AB T6G 2E9
PWNHC Permit #91-717

The researcher surveyed three short range radar installations and their surrounding areas. Forty-eight sites were identified; they ranged in age from Pre-Dorset to Historic Inuit.

Savelle, James

McGill University
805 Sherbrooke Street W.
Montréal, PQ H3A 2K6
PWNHC Permit #91-699

The research team engaged in mapping and excavations at Hazard Inlet on Somerset Island, a helicopter survey along the east coast of the Boothia Peninsula, and a survey and testing at Nudlukta Inlet on northeastern Boothia Peninsula. One hundred and eight prehistoric and historic sites were recorded on the helicopter survey. At Nudlukta Inlet, the team completed a map of a Thule site and partially excavated three tent rings and one qarmang.

Savelle, James

McGill University
805 Sherbrooke Street W.
Montréal, PQ H3A 2K6
PWNHC Permit #91-699

The researcher excavated a number of features at a large prehistoric Thule Inuit site at Hazard Inlet, southeastern Somerset Island. Two semi-subterranean winter houses and eleven qarmat and tent rings were excavated. The excavations yielded a large number of animal bones and stone and bone tools.

Schledermann, Peter

Arctic Institute of North America
University of Calgary
Calgary, AB T2N 1N4
PWNHC Permit #90-676

The research team excavated two prehistoric communal structures on Knud Peninsula, near a large area of permanently open water called the Flagler Bay polynya. One was the ruin of a large gathering house from the early Thule culture period from about AD 1250, and the second was a ceremonial structure of the late Dorset period from about AD 1000. They also surveyed the north shore of Pim Island and located many prehistoric summer hunting camps from both the Thule culture period and the earlier Arctic Small Tool tradition dating back over four thousand years.

Schledermann, Peter

Arctic Institute of North America
University of Calgary
Calgary, AB T2N 1N4
PWNHC Permit #91-706

The research team returned to the northeast coast of the Thorvald Peninsula and excavated a gravel-walled, sub-rectangular dwelling located about 28 metres above the present sea level, producing a very interesting assemblage of Palaeo-Eskimo tools.

Schledermann, Peter

Arctic Institute of North America
University of Calgary
Calgary, AB T2N 1N4
PWNHC Permit #91-713

The researcher spent several days in Cambridge Bay carrying out an assessment of archaeological resources in the vicinity of the community. His work supported earlier studies by other archaeologists indicating that the Freshwater Creek area had been a very important caribou hunting location used for several thousand years.

Stenton, Douglas

Canadian Circumpolar Institute
University of Alberta
Edmonton, AB T6G 2E9
PWNHC Permit #90-675

The researcher directed excavations at a large Thule winter site near Iqaluit. This project was initiated to provide professional development for several community agencies in Iqaluit, as well as a field learning experience for northern college students. The students excavated three Thule winter house ruins and one tent ring dating to the early twentieth century.

Stenton, Douglas

Canadian Circumpolar Institute
University of Alberta
Edmonton, AB T6G 2E9
PWNHC Permit #90-680

The researcher surveyed for sites along the coast of Peterhead Inlet at the head of Frobisher Bay. This work was done as part of a development plan for the expansion of the Sylvia Grinnel park, a recreational facility at Iqaluit. Thirty-three sites of various ages were recorded. Most of them relate to summer hunting and fishing in the upper part of the bay.

Stenton, Douglas

Canadian Circumpolar Institute
University of Alberta
Edmonton, AB T6G 2E9
PWNHC Permit #90-683

The researcher and Pingwartok Ottochie (Cape Dorset) discussed with elders the traditional routes that Inuit used to travel to hunt and fish in the interior of southern Baffin Island. The elders provided a wealth of information about this important part of the traditional Inuit lifestyle. The purpose of the survey was to record the number and types of sites along the route to learn more about prehistoric patterns of settlement.

Stenton, Douglas

Canadian Circumpolar Institute
University of Alberta
Edmonton, AB T6G 2E9
PWNHC Permit #91-702

The researcher conducted site surveys and excavations along part of a traditional overland route linking Hudson Strait with Amadjuak Lake, on southern Baffin Island. This route was one that people followed to reach important caribou hunting and fishing grounds near Amadjuak Lake. Sixty-six sites including Palaeo-Eskimo, Thule, early Historic and Recent Inuit camps were found.

Stenton, Douglas

Canadian Circumpolar Institute
University of Alberta
Edmonton, AB T6G 2E9
PWNHC Permit #91-703

The researcher continued excavations at the Peterhead Inlet site, northwest of Iqaluit. Ten first-year students enrolled in the Environmental Technology Programme conducted test excavations in a large Thule winter house. The students recovered artifacts such as Thule harpoon and lance heads and Late Dorset chert endblades.

Stenton, Douglas

Canadian Circumpolar Institute
University of Alberta
Edmonton, AB T6G 2E9
PWNHC Permit #91-716

The researcher conducted surveys along the Meliadine Esker at Rankin Inlet as part of a plan for the development of a territorial park. Eighteen new sites were identified, nearly all of which relate to occupations along the river during the summer and fall. Most of the sites were probably occupied during the past century, although one Thule winter house was also discovered.

Stevenson, Marc

Northern Past Heritage Consultants
11207-48th Avenue
Edmonton, AB T6H 0Z8
PWNHC Permit #90-693

The researcher engaged in documenting current and historic land use within the proposed park east of Paulatuk and south of the Arctic Coast between Darnley Bay and Coronation Gulf. This work was accomplished through interviews with hunters and elders in Paulatuk as well as a brief survey by helicopter of the proposed park lands.

Stevenson, Marc

Northern Past Heritage Consultants
11207-48th Avenue
Edmonton, AB T6H 0Z8
PWNHC Permit #91-715

The researcher continued archaeological and ethnohistorical investigations in the vicinity of Bluenose Lake with the documentation of contemporary, historic and prehistoric land use in the proposed park. Native women elders were also interviewed about domestic camp activities.

Stuart, Glenn

Fedirchuck McCullough & Assoc. Ltd.
315-1725-10th Avenue SW
Calgary, AB T3C 0K1
PWNHC Permit #90-684

The researcher conducted a study of seven DEW Line stations in the Central Arctic to record sites within the vicinity of the stations and to assess any damage inflicted on the sites.

Sutherland, Patricia

Canadian Museum of Civilization
100 Laurier Street
Box 3100, Station B
Hull, PQ J8X 4H2
PWNHC Permit #91-709

The researcher engaged in walking surveys and test excavations conducted at selected locations on the Tuktoyaktuk Peninsula. The purpose of the field work was to search for evidence of people who had lived in the area before the Inuvialuit of the last few centuries.

Taylor Jr., William E

Canadian Museum of Civilization
100 Laurier Street
Box 3100, Station B
Hull, PQ J8X 4H2
PWNHC Permit #90-674

The researcher excavated at the Pearce Point site and tested other sites at Halcro and House Points, which are Thule winter village sites.

Thomson, J. Callum

Jacques, Whitford & Assoc. Ltd.
3 Spectacle Lake Drive
Dartmouth, NS B3B 1W8
PWNHC Permit #90-686

The research team conducted a survey of seven DEW Line stations as part of an assessment of the environmental impacts which will be involved in the proposed clean-up of these stations.

Renewable Resources Research Permits Wildlife 1990/1991

Wildlife research permits are required for research studies on land animals under the Wildlife Act.

For more information
please contact
Wildlife Management Division
Department of Renewable Resources
Government of the NWT
Box 1320
Yellowknife, NT X1A 2L9
Phone (403) 873-7411
Fax (403) 873-0293

WILDLIFE RESEARCH

Role of the Male in Parental Care in Two Subspecies of Meadow Vole

Lisa Akler
Department of Biology
York University
4700 Keele Street
North York, ON M3J 1P3
1990

The researcher will examine the extent of parental care in two geographically differentiated subspecies of Meadow Vole.

Locations: Rankin Inlet and Eskimo Point

Central Arctic Goose Nesting Habitat Survey

Ray Alisauskas
Canadian Wildlife Service
115 Perimeter Road
Saskatoon, SK S7N 0X4
1990

The researcher will describe spatial distribution and census geese and swans.

Locations: Queen Maud Gulf

Genetic Variation, Population Differentiation & Isolation in Glacial Refuges

Allan Baker
Department of Ornithology
Royal Ontario Museum
100 Queen's Park
Toronto, ON M5S 2C6
1990

The researcher will compile DNA profiles to determine genetic variations and differentiations.

Locations: Kitikmeot, Keewatin, Baffin Regions

Contaminants in Waterfowl

Birgit Braune
National Wildlife Resources Centre
Canadian Wildlife Service
Ottawa, ON K1A 0H3
1990

The researcher will provide a comprehensive database on contaminants in waterfowl.

Locations: Baffin, Kitikmeot and Keewatin Regions

Moulting Habitats of Geese and Swans

Robert Bromley
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will identify breeding and moulting habitats to determine the number of geese and swans.

Locations: Central Kitikmeot Region

Spring Waterfowl Hunt in the Northwest Territories

Robert Bromley
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will gain knowledge on harvest and kinds of waterfowl shot by local residents.

Locations: Paulatuk and Sachs Harbour

Waterfowl of the Central Arctic

Robert Bromley
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will determine productivity, factors affecting production, survival rate, and relationships.

Locations: Albert Edward and Walker Bays

Waterfowl of the Central Arctic

Robert Bromley
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will determine productivity, factors affecting production, relationships, and survival rates.

Locations: Central Kitikmeot Region

Distribution, Abundance and Productivity of Muskoxen

Ray Case
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will determine the distribution, abundance and productivity.

Locations: Devon Island

Condition of Barren Ground Caribou North of Yellowknife

Ray Case
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will evaluate the condition of caribou wintering in the Gordon-Lockhart Lakes.

Locations: Gordon and Lockhart Lakes

Reproductive Characteristics of Barren Ground Grizzly

Ray Case
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will estimate population size in relation to harvest base and reproductive parameters.

Locations: Coppermine area

Western Arctic Grizzly Bear Research

Peter Clarkson
Renewable Resources
GNWT
Inuvik Region
Inuvik, NT X0E 0T0
1990

The researcher will determine the density, productivity, movements, home range and seasonal habitat use.

Locations: Anderson/Horton River, Inuvialuit Lands

Richardson Mountains Wolf Research

Peter Clarkson
Renewable Resources
GNWT
Inuvik Region
Inuvik, NT X0E 0T0
1990

The researcher will determine movements, distribution, denning areas, and assess predation rates.

Locations: Richardson Mountains

Western Arctic Wolf Research

Peter Clarkson
Renewable Resources
GNWT
Inuvik Region
Inuvik, NT X0E 0T0
1990

The researcher will determine movements, denning areas, distribution, and assess predation rates.

Locations: Inuvik, Paulatuk and Inuvialuit Lands

Data Collection by Canadian & Russian Students-Steensby Peninsula

Mark Cohon
Arctic Quest
Youth Challenge International
11 Soho Street
Toronto, ON M5T 1Z6
1990

The researcher will determine sex/age classification of Caribou, breeding birds, eider and raptor surveys.

Locations: Steensby Peninsula Yeoman and Baffin Islands

McKinley Bay Sea Duck Monitoring Project

Lynne Dickson
Canadian Wildlife Service
Room 210, 4999-98 Avenue
Edmonton, AB T6B 2X3
1990

The researcher will collect baseline data on moulting sea ducks on McKinley/Hutchison Bays.

Locations: McKinley and Hutchison Bays

Fall Migration and Wintering of TGP Canadian Goose

Andrew Didiuk
Canadian Wildlife Service
501 University Crescent
Winnipeg, MB R3T 2N6
1990

The researcher will band/measure adults and goslings, attach leg and neck bands on geese.

Locations: Eskimo Point, Great Plains of Koukdjuak

Peregrine Falcons at Rankin Inlet, NWT

Thomas Duncan
Department of Anatomy
University of Saskatchewan
Saskatoon, SK S7N 0W0
1990

The researcher will determine differences in diet/overall diet, and delivery rates of peregrines.

Locations: Rankin Inlet

Speciation & Historical Biogeography of Collared Lemmings

Judith Eger
Department of Mammalogy
Royal Ontario Museum
100 Queen's Park
Toronto, ON M5S 2C6
1990

The researcher will analyse chromosomal DNA, mitochondrial DNA and morphology.

Locations: Baffin, Kitikmeot, Keewatin, Inuvik Regions

Baffin Island Caribou Satellite Telemetry Project

Mike Ferguson
Renewable Resources
GNWT
Baffin Region
Pond Inlet, NT X0A 0S0
1990

The researcher will determine seasonal movements and annual fidelity to seasonal ranges.

Locations: Southern and Northern Baffin Island

Breeding Bird Survey

Robert Ferguson
Canadian Wildlife Service
P.O. Box 637
Yellowknife, NT X1A 2N5
1990

The researcher will monitor avian population changes to detect adverse trends.

Locations: Various locations in Southern Mackenzie

Documentary Film on the Snowy Owl

Jean-Louis Frund
Les Productions J.L. Frund Inc.
4100 Grande-Coulee
St. Edounard, PQ J0K 2H0
1990

The researcher will film the growth of the flight feathers and show close-ups of flying mechanics.

Locations: Eskimo Point

Seabird Monitoring Programme

Anthony Gaston
National Wildlife Resources Centre
Canadian Wildlife Service
100 Gamelin Boulevard
Hull, PQ K1A 0H3
1990

The researcher will study life cycle, band adults/chicks, and attach depth gauges on birds.

Locations: NE tip of Coats Island

Population Ecology of the Mackenzie Wood Bison

Cormack Gates
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will composition survey/census, relocate animals, capture/tag, analyse habitat.

Locations: Mackenzie Bison Sanctuary

Energetic and Feeding Ecology of Nesting Greater Snow Geese

Gilles Gauthier
Department of Biology
University of Laval
Sainte-Foy, PQ G1K 7P4
1990

The researcher will determine condition of birds, diet/quality of food, and evaluate impacts of grazing.

Locations: Bylot Island

Energetic and Feeding Ecology of Nesting Greater Snow Geese

Gilles Gauthier

Department of Biology
University of Laval
Ste-Foy, PQ G1K 7P4
1990

The researcher will determine the energy budget of nesting snow geese/ their impacts on vegetation.

Locations: Bylot Island

Maintainence of a High Level of Harvest on Marten

Ron Graf

Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will determine age, sex ratios and home range of animals in/out of the trapping area.

Locations: Big Buffalo River Area

Ethology of Arctic Mammals

David Gray

Vertebrate Ethology
Canadian Museum of Nature
Box 3443, Station D
Ottawa, ON K1P 6P4
1990

The researcher will observe breeding/maternal behaviour, film/tape record behaviour, and mark.

Locations: Sverdrup Pass, Polar Bear Pass

Ethology of Arctic Birds

David Gray

Vertebrate Ethology
Canadian Museum of Nature
Box 3443, Station D
Ottawa, ON K1P 6P4
1990

The researcher will observe breeding behaviour, sound record, photograph and film, and mark birds.

Locations: Polar Bear Pass and Penny Strait

Ethology of Arctic Birds

David Gray

Vertebrate Ethology
Canadian Museum of Nature
Box 3443, Station D
Ottawa, ON K1P 6P4
1990

The researcher will observe breeding behaviour of arctic birds, sound record/photograph/film.

Locations: Polar Bear Pass and Penny Strait

Ethology of Arctic Mammals

David Gray
Vertebrate Ethology
Canadian Museum of Nature
Box 3443, Station D
Ottawa, ON K1P 6P4
1990

The researcher will observe and record numbers, sex ratios and age of individuals, biological collection.

Locations: Sverdrup Pass, Polar Bear Pass

Muskox Seasonal Movements and Calf Survival

Anne Gunn
Renewable Resources
GNWT
Kitikmeot Region
Coppermine, NT X0E 0E0
1990

The researcher will determine seasonal movements and survival, describe scope of lungworm infection.

Locations: Coppermine area

Caribou Taphonomy, Rideout Island

Anne Gunn
Renewable Resources
GNWT
Kitikmeot Region
Coppermine, NT X0E 0E0
1990

The researcher will estimate sex/age profile of the die-off, describe skeletal dissassemblage.

Locations: Rideout Island, near Bathurst Inlet

Wolverine Ecology and Harvest Evaluation

Anne Gunn
Renewable Resources
GNWT
Kitikmeot Region
Coppermine, NT X0E 0E0
1990

The researcher will estimate sex/age profile, describe health, diet and ecology.

Locations: Coppermine area

Caribou Seasonal Condition, Health and Taxonomy

Anne Gunn
Renewable Resources
GNWT
Kitikmeot Region
Coppermine, NT X0E 0E0
1990

The researcher will estimate seasonal condition, describe health and diet, evaluate taxonomic status.

Locations: Southeast Victoria Island

Muskox Numbers and Distribution

Anne Gunn
Renewable Resources
GNWT
Kitikmeot Region
Coppermine, NT X0E 0E0
1990

The researcher will estimate numbers of muskox, describe distribution.

Locations: Northeast Victoria Island

Muskox Seasonal Condition and Health

Anne Gunn
Renewable Resources
GNWT
Kitikmeot Region
Coppermine, NT X0E 0E0
1990

The researcher will estimate seasonal condition, describe health and reproduction.

Locations: Southeast Victoria Island

Caribou Satellite Telemetry, Victoria Island

Anne Gunn
Renewable Resources
GNWT
Kitikmeot Region
Coppermine, NT X0E 0E0
1990

The researcher will complete fieldwork for movement study.

Locations: Cambridge Bay area

Treatment of Protostrogylus in Muskoxen-Pilot Study

Anne Gunn
Renewable Resources
GNWT
Kitikmeot Region
Coppermine, NT X0E 0E0
1990

The researcher will determine effectiveness of biobullets/Ivermectin in treating lungworm infection.

Locations: Coppermine area

Impacts of Pipeline Development-Wildlife Monitoring

J.W. Hayes
IPL (NW) Ltd.
P.O. Box 280
Norman Wells, NT X0E 0J0
1990

The researcher will determine effects of pipeline on wildlife utilization in the R-O-W area.

Locations: Mackenzie Pipeline R-O-W (kp 0 to 740)

Behaviour and Ecology of Ravens

Doug Heard
82 Morrison Drive
Yellowknife, NT X1A 1Z2
1990

The researcher will band fledglings, observe behaviour, necropsy birds found dead.

Locations: 60 km radius of Yellowknife

Wildlife Management Studies-Beverly Caribou Herd

Doug Heard
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will engage in ground/aerial classification counts, wolf/caribou samples, assess recruitment.

Locations: Beverly Caribou Range

Wildlife Management Studies-Bathurst Caribou Herd

Doug Heard
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will engage in ground/aerial classification counts, aerial photography survey, wolf/caribou collection.

Locations: Bathurst Caribou Range

Ecology of Caribou on Southampton Island

Doug Heard
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will kill 50 female and 30 male caribou for samples, aerial survey.

Locations: Southampton Island

Reindeer Range on the Belcher Islands

Gregory Henry
Department of Geology
University of Alberta
Edmonton, AB T6G 2H4
1990

The researcher will observe the feeding behaviour and range use patterns of the animals.

Locations: Belcher Islands

Population Ecology of Spruce Grouse

James Hines
Canadian Wildlife Service
P.O. Box 637
5028-57th Street
Yellowknife, NT X1A 1Y0
1990

The researcher will determine habitat requirements, population density, age/sex composition of grouse.

Locations: 50 km radius of Yellowknife

Population Ecology of Spruce Grouse

James Hines
Canadian Wildlife Service
P.O. Box 637
5028-57th Street
Yellowknife, NT X1A 1Y0
1990

The researcher will determine habitat requirements, population density, age/sex composition of grouse.

Locations: 60 km radius of Yellowknife

Distribution, Abundance & Survival of Canada Geese & Swans

James Hines
Canadian Wildlife Service
P.O. Box 637
5028-57th Street
Yellowknife, NT X1A 1Y0
1990

The researcher will determine important areas and numbers of swans/geese in the Inuvialuit Settlement Region.

Locations: Mackenzie Delta and areas near Tuktoyaktuk

Stable Isotope Analysis of High Arctic Food Chain

Keith Hobson
Department of Biology
University of Saskatchewan
Saskatoon, SK S7N 0W0
1990

The researcher will collect a number of birds of four different species for isotope analysis.

Locations: Barrow Strait and Lancaster Sound

Muskox Brain and its Bearing on Evolution/Status

Grant Hurlburt
Zoology Department
University of Toronto
Toronto, ON M5S 1A1
1990

The researcher will collect Muskox brains, heads, entire skeletons and tissue samples.

Locations: Cambridge Bay

Distribution & Survival of Geese-Central Canadian Arctic

Richard Kerbes
Canadian Wildlife Service
115 Perimeter Road
Saskatoon, SK S7N 0X4
1990

The researcher will determine distribution/relationship, estimate survival, neck and leg band, and monitor.

Locations: Queen Maud Gulf Bird Sanctuary

Inventory of Snow Geese Nesting-West Hudson Bay

Richard Kerbes
Canadian Wildlife Service
115 Perimeter Road
Saskatoon, SK S7N 0X4
1990

The researcher will estimate numbers and distribution, determine areas occupied by nesting birds.

Locations: Tha-anne, McConnell and Maguse Rivers

Small Mammal Distribution and Abundance in Alpine Habitats

Peter Kershaw
Department of Geography
University of Alberta
Edmonton, AB T6G 2H4
1990

The researcher will determine species present in each habitat type and population characteristics.

Locations: Mount Allan, Camp 222

Environmental Effects of Disturbances in the Subarctic-SEED

Peter Kershaw
Department of Geography
University of Alberta
Edmonton, AB T6G 2H4
1990

The researcher will determine seasonal distribution movements and population density of small mammals.

Locations: 10 km north of Fort Norman

Population Dynamics of Lemmings and Voles

Charles Krebs
Department of Zoology
University of British Columbia
Vancouver, BC V6T 2A9
1990

The researcher will determine role of predation on population size, measure predation rates, radio track.

Locations: Horton/Anderson River, Pearce/Nicholson Points

Migration Study of American Kestrels

Emie Kuyt
Canadian Wildlife Service
2nd Floor, 4999-98 Avenue
Edmonton, AB T6B 2X3
1990

The researcher will determine migration patterns and reproductive success, and locate nest sites.

Locations: Fort Smith area

Sahtu District Marten Research

Paul Latour
Renewable Resources
GNWT
P.O. Box 390
Norman Wells, NT X0E 0V0
1990

The researcher will determine summer/winter range, dispersal timing, food and habitat availability.

Locations: 25 km west of Norman Wells

Polar Bear Distribution and Numbers

Jim Leafloor
Ontario Ministry of Natural Resources
P.O. Box 190
Moosonee, ON P0L 1Y0
1990

The researcher will document seasonal and annual variations in distribution and numbers.

Locations: Akimiski Island

Waterfowl and Shorebird Staging Surveys

Jim Leafloor
Ontario Ministry of Natural Resources
P.O. Box 190
Moosonee, ON P0L 1Y0
1990

The researcher will determine use by migrant waterfowl/shorebirds of the Hudson Bay coast.

Locations: Akimiski Island

Canada Goose Banding Study

Jim Leafloor
Ontario Ministry of Natural Resources
P.O. Box 190
Moosonee, ON P0L 1Y0
1990

The researcher will capture and legband (2-3000) Canada geese/neck collar 2/3 of all adults.

Locations: Akimiski Island

Wildlife Studies Relating to an Environmental Assessment of Kiggavik

Donald Lush
Beak Consultants Ltd.
14 Abacus Road
Brampton, ON L6T 5B7
1990

The researcher will establish baseline chemistry in terrestrial wildlife of Kiggavik area.

Locations: Baker Lake, Kiggavik area

Migration of Bald Eagles from Glacier National Park, Montana

B. Riley McClelland
School of Forestry
University of Montana
Missoula, MT 59812 USA
1990

The researcher will document locations of transmitter equipped Bald Eagles in the NWT.

Locations: Mackenzie River Basin

Movements, Distribution & Productivity of Caribou

Bruce McLean
Renewable Resources
GNWT
Bag Service #1
Inuvik, NT X0E 0T0
1990

The researcher will conduct classification counts, radio track, and collect biological samples.

Locations: Bluenose Caribou Range

Population Dynamics of Banks Island Muskox and Caribou

Bruce McLean
Renewable Resources
GNWT
Bag Service #1
Inuvik, NT X0E 0T0
1990

The researcher will monitor population status and trends, parasites/ disease, sample collection, range use.

Locations: Banks Island

Population Dynamics of Banks Island Muskox and Caribou

Bruce McLean
Renewable Resources
GNWT
Bag Service #1
Inuvik, NT X0E 0T0
1990

The researcher will monitor population status and trends, parasites/ disease, sample collection, range use.

Locations: Banks Island

Behavioural Ecology of an Arctic Wolf Pack

David Mech
US Fish/Wildlife Service
North Central Forest Experimental Station
1992 Folwell Avenue
St. Paul, MN 55108 USA
1990

The researcher will determine social interactions of wolf pack members through various means.

Locations: Ellesmere Island

Peary Caribou Conservation

Frank Miller
Canadian Wildlife Service
2nd Floor, 4999-98 Avenue
Edmonton, AB T6B 2X3
1990

The researcher will evaluate springtime distribution and impact of snow/ice conditions.

Locations: Various islands near Bathurst Island

Migration & Physiological Studies of High Arctic Shorebirds at Alert

Guy Morrison
National Wildlife Resources Centre
Canadian Wildlife Service
100 Gamelin Boulevard
Hull, PQ K1A 0H3
1990

The researcher will determine activity patterns of birds during immediate post-arrival period.

Locations: Alert, Ellesmere Island

Arctic Shorebirds and their Habitats in the Foxe Basin

Guy Morrison
National Wildlife Resources Centre
Canadian Wildlife Service
100 Gamelin Boulevard
Hull, PQ K1A 0H3
1990

The researcher will study breeding shorebird population and their habitat in the Foxe Basin.

Locations: Foxe Basin/Prince Charles Islands

Kaminuraik Spring Composition Survey

Robert Mulders
Renewable Resources
GNWT
Keewatin Region
Arviat, NT X0C 0E0
1990

The researcher will conduct ground classification survey to gather data for management.

Locations: Kaminuriak Caribou Range

Kaminuraik Fall Survey (Sex Composition)

Robert Mulders
Renewable Resources
GNWT
Keewatin Region
Arviat, NT X0C 0E0
1990

The researcher will conduct air/ground classification count to gather data for management.

Locations: Kaminuriak Caribou Range

Chemical and Behavioural Ecology of Hare

Stephan Natynczuk
The Science School
Clifton College
Bristol BS8 3JH UNITED KINGDOM
1990

The researcher will observe and record social and olfactory behaviours on use of scent, and mark.

Locations: Mokka Fiord, Axel Heiberg Island

Chemical and Behavioural Ecology of Hare

Stephan Natynczuk
The Science School
Clifton College
Bristol BS8 3JH UNITED KINGDOM
1990

The researcher will measure, weigh, sex/sample and collect scent material, and attach radio-collars.

Locations: Mokka Fiord, Axel Heiberg Island

Comparative Breeding Biology of the Harris & White-crowned Sparrows

Chris Norment
Museum of Natural History
University of Kansas
Lawrence, KS 66044 USA
1990

The researcher will determine food supply, diet, foraging/feeding behaviour and predation rates.

Locations: Warden's Grove on Thelon River

Comparative Breeding Biology of the Harris & White-crowned Sparrows

Chris Norment
Museum of Natural History
University of Kansas
Lawrence, KS 66044 USA
1990

The researcher will determine reproductive and breeding biology, diet, food supply and predation rates.

Locations: Warden's Groves Thelon Game Sanctuary

Raptor Surveys in the Subarctic Arctic

Joachim Obst
General Delivery
Yellowknife, NT X1A 2L8
1990

The researcher will determine population size, dynamics, movements, reproduction and survival rates.

Locations: Horton and Hornaday Rivers

Lynx and Marten Carcass Collections

Kim Poole
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will collect lynx and marten carcasses to determine age, sex and reproductive condition.

Locations: Fort Smith and Sahtu Regions

Mackenzie Sanctuary Lynx Study

Kim Poole
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will determine home range size, movement patterns and use of habitat by lynx.

Locations: Calaise Lake area

Wolverine Carcass Assessment

Kim Poole
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will determine age/sex, reproductive history and fat condition of harvested wolverines.

Locations: Inuvialuit Region

Kania Trap Testing for Marten Trapping

Gilbert Proulx
Forestry
Arctic Research Council
P.O. Box 8330
Edmonton, AB T6H 5X2
1990

The researcher will test the Kania Trap on Marten to determine the efficiency and humaneness.

Locations: Fort Norman area

Snow Goose Research and Surveys in the Baffin Region 1990

Austin Reed

Canadian Wildlife Service
P.O. Box 10100
Sainte-Foy, PQ G1V 4H5
1990

The researcher will study brood-rearing and behavioural ecology and movements, attach transmitters.

Locations: Bylot Island

Predation and the Population Dynamics of the Collared Lemming

Donald Reid

Department of Zoology
University of British Columbia
Vancouver, BC V6T 2A9
1990

The researcher will determine predation/predation risk on lemming populations, and home range size.

Locations: Pearce Point

Plovers Parental Care and Communication System

Carolyn Ristau

Rockerfeller University
1230 York Avenue
New York, NY 10021 USA
1990

The researcher will study the plovers parental and communicative behaviour and responses.

Locations: Igloolik, Melville Island

Field Testing of Sauvageau 2001-8 Killing Trap on Arctic Fox

Ken Seidel

Forestry
Arctic Research Council
P.O. Box 8330
Edmonton, AB T6H 5X2
1990

The researcher will test the Sauvageau 2001-8 on Arctic fox to determine capture efficiency.

Locations: Sachs Harbour and Holman Island areas

Hope Bay Gyrfalcon Survey

Chris Shank

Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will monitor breeding numbers and reproduction success, blood sample, census.

Locations: Hope Bay area

Monitoring Nesting Success of Frobisher Bay Gyrfalcons

Chris Shank
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will determine occupancy/productivity of known nest sites, take blood, band, measure.

Locations: Barrow Peninsula and Newell Sound

Initial Investigations of the Movements of Muskox Groups Below the Treeline

Chris Shank
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will determine annual movements, calf production, long-term stability, assess habitat.

Locations: Northern Sahtu District

Coppermine Gyrfalcon Surveys

Chris Shank
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will determine occupancy and productivity of known nest sites, band, measure and take blood.

Locations: 120 km radius of Coppermine

Dall's Sheep Population Southwest of Norman Wells

Chris Shank
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will determine population size, recruitment, production and survival/compare results.

Locations: Southwest of Norman Wells

Nesting Success of Mackenzie Valley Peregrine Falcons

Chris Shank
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will determine occupancy/productivity of known nest sites, band, measure and take blood.

Locations: MacKay Range and Campbell Lake Hills

Mating Systems and Behavioural Ecology of the Ground Squirrel

Mark Simpson
Department of Biology
York University
4700 Keele Street
North York, ON M3J 1P3
1990

The researcher will determine mating systems, resource distribution, and social behaviour.

Locations: Rankin Inlet

Census of Gulls and Terns in the East Arm of Great Slave Lake

Jacques Sirois
Canadian Wildlife Service
P.O. Box 637
Yellowknife, NT X1A 2N5
1990

The researcher will census breeding population of birds in the East Arm of Great Slave Lake.

Locations: East Arm of Great Slave Lake

Western Canada Cooperative Waterfowl Banding Program

John Solberg
US Fish and Wildlife Service
P.O. Box 1686
Kearney, NE 68848 USA
1990

The researcher will engage in pre-season banding of waterfowl at Mills Lake, NWT.

Locations: Mills Lake

East Arm Staging Survey

Gord Stenhouse
Ducks Unlimited
P.O. Box 2641
Yellowknife, NT X1A 2P9
1990

The researcher will identify important spring staging habitat for waterfowl in East Arm.

Locations: Artillary Lake to Thelon Sanctuary

Population Biology and Behaviour of Polar Bears and Seals

Ian Stirling
Canadian Wildlife Service
5312-122 Street
Edmonton, AB T6H 3S5
1990

The researcher will observe and record natural behaviour of polar bears, and determine distribution and abundance.

Locations: Dundas Island and Radstock Bay

Population Boundaries, Movements, & Numbers of Polar Bears

Mitch Taylor
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will identify boundaries, estimate population size, recommend quotas, check conditions/contaminant levels.

Locations: McClure Strait and Viscount Melville Strait

Foxe Basin Polar Bear Project

Mitch Taylor
Renewable Resources
GNWT
P.O. Box 1320
Yellowknife, NT X1A 2L9
1990

The researcher will inject 300 or more polar bears, recapture, eartag, and collect tissue samples.

Locations: Foxe Basin, Wager Bay, Southampton Island

Polonium-210 and Lead-210 in the Food Chains

Patricia Thomas
Department of Biology
University of Saskatchewan
Saskatoon, SK S7N 0W0
1990

The researcher will determine levels of polonium-210 and lead-210 in lichen, caribou and wolf.

Locations: Baker Lake and vicinity

Waterfowl Breeding Ground Surveys

James Voelzer
Waterfowl Population Survey
US Fish and Wildlife Service
1002 N.E. Holliday Street
Portland, OR
1990

The researcher will determine size and species composition of breeding waterfowl in Mackenzie River.

Locations: Fort Smith to Tuktoyaktuk

Reproductive Success of Tree Swallows in Relation to Food Abundance

Leslie Wakelyn
1 Nuttall Court
Yellowknife, NT X1A 3M3
1990

The researcher will determine relationship between clutch size, food abundance and number of eggs laid.

Locations: Yellowknife

Habitat Degradation of Ross and Lesser Geese at Karrak Lake

Ray Alisauskas
Canadian Wildlife Service
115 Perimeter Road
Saskatoon, SK S7N 0X4
1991

The researcher will determine brood rearing, survival, and growth rates.

Locations: Queen Maud Sanctuary

Growth and Survival in Black Brant Goslings

Terry Armstrong
Department of Zoology
University of Alberta
Edmonton, AB T6G 2E9
1991

The researcher will determine growth/survival rates, colony size/distribution, and nesting success.

Locations: Anderson River

Marten Carcass Collection

Conrad Baetz
Renewable Resources
GNWT
Bag Service #1
Inuvik Region
Inuvik, NT X0E 0T0
1991

The researcher will map active traplines, monitor the harvest and collect all carcasses.

Locations: Marten House/Bernard Creek area

Live Capture Muskox

Thomas Beaudoin
Renewable Resources
Inuvialuit Development Corporation
650-10201 Southport
Calgary, AB T2W 4X9
1991

The researcher will harvest 800-1500 Muskox for commercial sale.

Locations: Banks Island

Harvest of 300 to 500 Muskoxen for Commercial Sale

Thomas Beaudoin
Renewable Resources
Inuvialuit Development Corporation
650-10201 Southport
Calgary, AB T2W 4X9
1991

The researcher will harvest 300-500 Muskox for commercial sale.

Locations: Ski Lake to Sachs Harbour

Waterfowl of the Central Arctic

Robert Bromley
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will determine productivity, factors affecting production, relationships, and survival rates.

Locations: Albert Edward and Walker Bays

Moulting Habitat of Geese and Swans

Robert Bromley
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will identify important breeding and moulting habitats, as well as determine geese and swan numbers.

Locations: Albert Edward and Walker Bays

Reproductive Characteristics of Barren Ground Grizzly

Ray Case
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will determine if the population can withstand harvesting.

Locations: Rae-Richardson Valley, Dismal Lake area

Barren Ground Caribou Wintering in Gordon Lake

Ray Case
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will evaluate the condition of the Bathurst Caribou wintering in Gordon Lake.

Locations: Gordon and Lockhart Lakes

Fall Migration and Wintering TGP Canada Geese

Dale Caswell
Canadian Wildlife Service
Room 513, 269 Main Street
Winnipeg, MB R3C 1B2
1991

The researcher will collect information from leg/neck bands necessary to assess population status and harvest potential.

Locations: Southampton Island, Boas River and East Bay

Richardson Mountains Wolf Research

Peter Clarkson
Renewable Resources
GNWT
Bag Service #1
Inuvik Region
Inuvik, NT X0E 0T0
1991

The researcher will determine movements, distribution and denning areas, as well as assess wolf predation and relationships.

Locations: Richardson Mountains

Western Arctic Wolf Research

Peter Clarkson
Renewable Resources
GNWT
Bag Service #1
Inuvik Region
Inuvik, NT X0E 0T0
1991

The researcher will determine movements, distribution and denning areas, as well as wolf predation and relationships.

Locations: Between Inuvik and Paulatuk

Western Arctic Grizzly Bear Research

Peter Clarkson
Renewable Resources
GNWT
Bag Service #1
Inuvik Region
Inuvik, NT X0E 0T0
1991

The researcher will determine movements, home range, density, productivity and cub survival, as well as habitat use.

Locations: Along the Horton and Anderson Rivers

McKinley Bay Sea Duck Monitoring Project

Lynne Dickson
Canadian Wildlife Service
Room 210, 4999-98 Avenue
Edmonton, AB T6B 2X3
1991

The researcher will collect baseline data on moulting sea ducks using McKinley/Hutchison Bays.

Locations: McKinley and Hutchison Bays

Habitat Damage, Snow Goose Mortality and Disease

Andrew Didiuk
Canadian Wildlife Service
115 Perimeter Road
Saskatoon, SK S7N 0X4
1991

The researcher will try to establish a link between mortalities and information on habitat damage.

Locations: Keewatin District, Thaane river to Arviat

Fall Migration and Wintering TGP Canada Geese

Andrew Didiuk
Canadian Wildlife Service
115 Perimeter Road
Saskatoon, SK S7N 0X4
1991

The researcher will obtain information to assess population status and harvest by leg/neck bands.

Locations: Keewatin District, Manitoba/NWT border to Rankin

Morphometrics of Small Canada Geese

Andrew Didiuk
Canadian Wildlife Service
115 Perimeter Road
Saskatoon, SK S7N 0X4
1991

The researcher will attempt to develop a key to separate the different populations of small Canada Geese.

Locations: Keewatin District, Manitoba/NWT border to Rankin

Speciation and Historical Biogeography of Collared Lemmings

Judith Eger
Department of Mammology
Royal Ontario Museum
100 Queen's Park
Toronto, ON M5S 2C6
1991

The researcher will analyse chromosomal DNA, mitochondrial DNA and morphology.

Locations: Baffin, Inuvik and Keewatin Regions

Baffin Island Satellite Telemetry Project

Mike Ferguson
Renewable Resources
GNWT
Baffin Region
Pond Inlet, NT X0A 0S0
1991

The researcher will determine seasonal movement patterns, and annual fidelity to seasonal changes.

Locations: Southern and Northern Baffin Island

Seabird Monitoring Programme

Anthony Gaston
National Wildlife Resources Centre
Canadian Wildlife Service
100 Gamelin Boulevard
Hull, PQ K1A 0H3
1991

The researcher will provide information on population dynamics of Thick-billed Murres.

Locations: NE tip of Coats Island

Population Ecology of Mackenzie Bison

Cornack Gates
Renewable Resources
GNWT
Box 390
Fort Smith, NT X0E 0P0
1991

The researcher will determine size and trend, as well, a total count will also take place.

Locations: Fort Providence area

Population Ecology of the Mackenzie Wood Bison

Cornack Gates
Renewable Resources
GNWT
Box 390
Fort Smith, NT X0E 0P0
1991

The researcher will engage in a composition survey/census, capture, radio collar, establish calf survival and track.

Locations: Mackenzie Bison Sanctuary

Feeding Ecology of Breeding Greater Snow Geese

Gilles Gauthier
Department of Biology
University of Laval
Sainte-Foy, PQ G1K 7P4
1991

The researcher will monitor productivity, nest success, clutch size, and measure impact of grazing.

Locations: Southwest Bylot Island

Landsat Imagery and Important Areas for Shorebirds

Cheri Gratto-Trevor
Canadian Wildlife Service
115 Perimeter Road
Saskatoon, SK S7N 0X4
1991

The researcher will determine the distribution and breeding biology of shorebirds to prepare for oil and gas.

Locations: Mackenzie Delta

Ethology of Arctic Birds

David Gray
Vertebrate Ethology
Canadian Museum of Nature
Box 3443, Station D
Ottawa, ON K1P 6P4
1991

The researcher will observe, document, and record the breeding behaviour of arctic birds.

Locations: Polar Bear Pass and Penny Strait

Ethology of Arctic Mammals

David Gray
Vertebrate Ethology
Canadian Museum of Nature
Box 3443, Station D
Ottawa, ON K1P 6P4
1991

The researcher will observe breeding/maternal behaviour, film/tape record behaviour and mark hares.

Locations: Sverdrup Pass and Polar Bear Pass

Caribou Taphonomy, Rideout Island

Anne Gunn
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will establish sex and age profiles of the die-off, and describe skeletal disassemblage.

Locations: Rideout Island, Bathurst Inlet

Caribou Disease and Predation

Anne Gunn
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will obtain information on the relationship between predation and brucellosis.

Locations: Pelly and Spence Bay area

Muskox Population Size and Distribution

Anne Gunn
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will estimate population size.

Locations: Gjoa Haven area

Muskox Seasonal Movements and Calf Survival

Anne Gunn
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will determine seasonal movements, effects of biobullets, and estimate population size.

Locations: Coppermine area

Muskox Condition and Reproductive Study

Anne Gunn
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will determine health and parasite status, and the relationship between reproduction/condition.

Locations: Cambridge Bay area

Muskox Seasonal Movements and Calf Survival

Anne Gunn
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will determine seasonal movements, check for lungworms, calf survival, biobullets.

Locations: Coppermine area

Muskox Population Size and Distribution

Anne Gunn
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will estimate population size and distribution.

Locations: Contwoyto Lake area

Wolverine Ecology and Harvest Evaluation

Anne Gunn
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will estimate sex and age profiles, describe health and diet and ecology.

Locations: Coppermine area

Caribou Satellite Telemetry

Anne Gunn
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will complete fieldwork for movements study.

Locations: Pelly and Spence Bay areas

Caribou Mortality

Anne Gunn
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will obtain information on the possible causes of mortality.

Locations: Holman Island area

Caribou Digestive Morphology

Anne Gunn
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will determine gastro-morphology and compare with muskoxen, feeding relationship.

Locations: Cambridge Bay area

Muskox Foraging and Snow Condition Study

Anne Gunn
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will determine the relationship between foraging behaviour and snow conditions.

Locations: Cambridge Bay area

Tetraonid Comparative Behaviour

David Hancock
Hancock Wildlife Research Centre
19313 Zero Avenue
Surrey, BC V3S 5J9
1991

The researcher will study breeding and chick behaviour.

Locations: Mackenzie Mountains north of Nahanni National Park

Tetraonid Comparative Behaviour

David Hancock
Hancock Wildlife Research Centre
19313 Zero Avenue
Surrey, BC V3S 5J9
1991

The researcher will study the breeding behaviour and chick behaviour.

Locations: Mackenzie Mountains, Nahanni National Park

Expedition Ellesmere Island 91

K.W. Hankinson
Operations Wing
RAF Valley
Holyhead
Gwynedd, UNITED KINGDOM
1991

The researcher will estimate the proportion of wading birds, establish breeding patterns.

Locations: Borup Fiord

Wildlife Monitoring to Assess Impacts of Pipeline Development

J.W. Hayes
IPL (NW) Ltd.
P.O. Box 280
Norman Wells, NT X0E 0J0
1991

The researcher will determine effects of pipeline on wildlife utilization in the R-O-W area.

Locations: Mackenzie Pipeline R-O-W (0 to 740)

Wildlife Management Studies on the Beverly Caribou Herd

Doug Heard
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will conduct ground and aerial classification counts, and collect specimens.

Locations: Beverly Caribou Range

Causes and Consequences of Migration to Caribou Dynamics

Doug Heard
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will determine seasonal changes in feeding behaviour, diet, and body fat of both sexes.

Locations: Bathurst Caribou Range

Ecological Factors that Influence Population Dynamics of Bathurst Herd

Doug Heard
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will conduct ground and aerial classification counts and collect specimens.

Locations: Bathurst Caribou Range

Behaviour and Ecology of Ravens

Doug Heard
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will determine productivity, roost characteristics, food, habits/mortality factors.

Locations: Yellowknife and vicinity

Wolf Predation on Caribou

Doug Heard
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will determine if wolves kill at the same rate throughout the summer.

Locations: wolf dens near Greenstockings Lake

Ecology of Caribou on Southampton Island

Doug Heard
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will conduct population census, kill 40 female caribou, determine effects of grazing.

Locations: Southampton Island

Abundance and Productivity of Waterfowl Breeding

James Hines
Canadian Wildlife Service
Box 637
Yellowknife, NT X1A 2N5
1991

The researcher will determine factors that limit size, composition and productivity in ducks.

Locations: 45 km westward along Yellowknife Highway

Distribution, Abundance & Survival-Canada Geese & Tundra Swans

James Hines
Canadian Wildlife Service
Box 637
Yellowknife, NT X1A 2N5
1991

The researcher will determine important areas, fall/winter distribution, numbers and survival rates.

Locations: Inuvialuit Settlement Region

Population Ecology of Spruce Grouse

James Hines
Canadian Wildlife Service
Box 637
Yellowknife, NT X1A 2N5
1991

The researcher will determine habitat requirements, density, age and sex composition, reproductive success.

Locations: 50 km radius of Yellowknife

Genetic Variability in the Breeding Population of Peregrines

Robin Johnstone
Department of Biology
University of Saskatchewan
Saskatoon, SK S7N 0W0
1991

The researcher will determine genetic structure, pesticide levels, DNA fingerprinting, and observe.

Locations: Rankin Inlet

Environmental Effects of Disturbances in the Subarctic-SEEDS

Peter Kershaw
Department of Geography
University of Alberta
Edmonton, AB T6G 2H4
1991

The researcher will determine distribution, seasonal movements and population densities of small mammals.

Locations: 10 km north of Fort Norman

Small Mammal Distribution and Abundance in Alpine Habitat

Peter Kershaw
Department of Geography
University of Alberta
Edmonton, AB T6G 2H4
1991

The researcher will establish baseline data, determine species present, and population characteristics.

Locations: Mount Allen, Camp 222 area

Dynamics of Lemmings and Voles

Charles Krebs
Department of Zoology
University of British Columbia
6270 University Boulevard
Vancouver, BC V6T 2A9
1991

The researcher will determine role of predation in the limitation of lemming and vole populations.

Locations: Pearce Point

Migration Study of American Kestrels

Emie Kuyt
Canadian Wildlife Service
Room 210, 4999-98 Avenue
Edmonton, AB T6B 2X3
1991

The researcher will determine migration patterns, winter range, reproductive success, record nest sites.

Locations: Fort Smith area

Capture of Ravens for Motion Picture Filming

Jean Labrecque
Map of the Human Heart
5600 Hochelaga E.
Montréal, PQ
1991

The researcher will capture, feed, film and release ravens.

Locations: Iqaluit

Monitoring of Dall's Sheep Population in the Mackenzie Mountains

Paul Latour
Renewable Resources
GNWT
Box 130
Norman Wells, NT X0E 0V0
1991

The researcher will determine recruitment, obtain measurements of lamb survival.

Locations: approximately 80 km west of Norman Wells

Forest Burns-Sahtu District-Furbearers/Ungulates

Paul Latour
Renewable Resources
GNWT
Box 130
Norman Wells, NT X0E 0V0
1991

The researcher will determine relative winter abundance in burns of differing ages.

Locations: Sahtu District

Sahtu District Marten Research

Paul Latour
Renewable Resources
GNWT
Box 130
Norman Wells, NT X0E 0V0
1991

The researcher will examine summer and winter home range size, pattern and timing of dispersal.

Locations: 25 km west of Norman Wells

Muskox Relocation

Paul Latour
Renewable Resources
GNWT
Box 130
Norman Wells, NT X0E 0V0
1991

The researcher will determine calf production and composition.

Locations: northern Sahtu region

Marten Research

Paul Latour
Renewable Resources
GNWT
Box 130
Norman Wells, NT X0E 0V0
1991

The researcher will examine summer and winter ranges, habitat, access to food availability.

Locations: 25 km west of Norman Wells

Osteological Collection of Large Mammals and Birds

Thomas Laurion
10 Field Station Road
Lander, WY 82520 USA
1991

The researcher will collect osteological material of large mammals and birds.

Locations: within/outside Thelon Game Sanctuary

Environmental Assessment of Kiggavik

Donald Lush
Beak Consultants Ltd.
14 Abacus Road
Brampton, ON L6T 5B7
1991

The researcher will establish baseline chemistry in terrestrial wildlife of Kiggavik area.

Locations: Baker Lake, Kiggavik area

Petroleum Exploration and Development Impact on Caribou Populations

Thomas McCabe
Alaska Fish and Wildlife
US Fish and Wildlife Service
101 12th Avenue, Box 20
Fairbanks, AK 99701 USA
1991

The researcher will determine size, productivity, age and sex ratios, seasonal distribution and movements.

Locations: Richardson Mountains to Arctic Coast/Peel River

Monitoring of Movement, Distribution, and Productivity of Bluenose Caribou

Bruce McLean
Renewable Resources
GNWT
Bag Service #1
Inuvik Region
Inuvik, NT X0E 0T0
1991

The researcher will determine recruitment rates, radio-collar, estimate population numbers.

Locations: Bluenose Caribou Range

Population Dynamics of Banks Island Muskoxen and Caribou

Bruce McLean
Renewable Resources
GNWT
Bag Service #1
Inuvik Region
Inuvik, NT X0E 0T0
1991

The researcher will monitor population status and trends, presence of parasites, range quality.

Locations: Banks Island

Behavioural Ecology of an Arctic Wolf Pack

David Mech
NCF Experimental Station
US Fish and WildlifeService
1992 Folwell Avenue
St. Paul, MN 55108 USA
1991

The researcher will determine social interactions of wolf pack members through various means.

Locations: Ellesmere Island

Ecological Study of Peary Caribou in the Canadian Arctic

Frank Miller
Canadian Wildlife Service
Room 210, 4999-98 Avenue
Edmonton, AB T6B 2X3
1991

The researcher will evaluate springtime distribution and impacts of snow/ice conditions.

Locations: various islands near Bathurst Island

Behavioural Ecology of High Arctic Vertebrates

Robert Montgomerie
Department of Biology
Queen's University
Kingston, ON K7L 3N6
1991

The researcher will look at how birds and other animals cope with harsh environments.

Locations: Sarcpa Lake

Migration, Ecophysiology and Energetics of High Arctic Shorebirds

Guy Morrison
National Wildlife Resources Centre
Canadian Wildlife Service
100 Gamelin Boulevard
Hull, PQ K1A 0H3
1991

The researcher will determine energy budgets, body reserves, breeding success, densities, observations.

Locations: Alert, Ellesmere Island

Kaminuriak Spring Composition Survey

Robert Mulders
Renewable Resources
GNWT
Arviat, NT X0C 0E0
1991

The researcher will conduct a survey to provide data to support caribou management decisions.

Locations: Kaminuriak Caribou Range

Census of Muskox Management Area J1/1

Robert Mulders
Renewable Resources
GNWT
Arviat, NT X0C 0E0
1991

The researcher will provide data to support management decisions.

Locations: J1/1 sw of Baker Lake

Distribution and Survival of Geese in the Central Arctic

D.J. Nieman
Canadian Wildlife Service
115 Perimeter Road
Saskatoon, SK S7N 0X4
1991

The researcher will determine distribution, estimate survival and relationships with other geese.

Locations: Inglis River region

Comparative Breeding Biology of the Harris and White-Crowned Sparrows

Chris Norment
Museum of Natural History
University of Kansas
Lawrence, KS 66044 USA
1991

The researcher will quantify reproductive and breeding biology, measure habitat and resource use.

Locations: Warden's Grove, Thelon Game Sanctuary

Raptor Survey

Joachim Obst
General Deliver
Yellowknife, NT X1A 2L8
1991

The researcher will document population size, reproduction and locate raptor nest sites.

Locations: Horton, Hornaday and Brock Rivers

Beaver Lodge Surveys

Kim Poole
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will identify lodge locations and monitor long term trends.

Locations: 200 km northeast of Detah

Lynx and Marten Carcass Collection

Kim Poole
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will collect lynx and marten carcasses to determine age, sex, and reproductive condition.

Locations: Fort Smith and Sahtu regions

Mackenzie Sanctuary Lynx Study

Kim Poole
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will determine home range size, movement patterns and use of habitat.

Locations: Calais Lake area

Wolverine Carcass Assessment

Kim Poole
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will determine age/sex, reproductive history and fat condition of harvested wolverines.

Locations: Inuvik District

Breeding Ecology of Greater Snow Goose

Austin Reed
Canadian Wildlife Service
1141, Route de l'Egli
Sainte-Foy, PQ G1V 4H5
1991

The researcher will study incubation behaviour of nesting females, evaluate body condition of females.

Locations: Bylot Island

Predation and the Population Dynamics of the Collared Lemming

Donald Reid
Department of Zoology
University of British Columbia
6270 University Boulevard
Vancouver, BC V6T 2A9
1991

The researcher will investigate density and population eruptions of Collared Lemmings by predator regulation.

Locations: Pearce Point

Plovers Parental Care and Communicative System

Carolyn Ristau
Rockefeller University
1230 York Avenue
New York, NT 10021 USA
1991

The researcher will study parental and communicative behaviour, response to man/predators.

Locations: Igloolik, Melville Peninsula

Photographic & Written Information-Shorebirds & Waterfowl

Keith Roney
Museum of Natural History
2340 Alberta Street
Regina, SK S4P 3V7
1991

The researcher will apply information gathered into planning and design of a diorama.

Locations: Mackenzie Delta area

Dispersal of Black Brant

James Sedinger
Institute of Arctic Biology
US Fish and Wildlife Service
311 Urving Building
Fairbanks, AK 99775 USA
1991

The researcher will examine breeding and non-breeding brant for the presence of leg bands.

Locations: at the mouth of the Anderson River

Nesting Success of Coppermine Gyrfalcons

Chris Shank
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will determine number of nesting pairs, proportion of nest found, band and measure.

Locations: Coppermine and vicinity

Nesting Success of Mackenzie Valley Peregrine Falcons

Chris Shank
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will determine nest productivity, band and measure young, obtain blood samples.

Locations: Campbell Hills, Arctic Red River

Regional Trends in Small Mammal Populations

Chris Shank
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will document long term trends in small mammal numbers at a few locations.

Locations: Kitikmeot, Keewatin, Inuvik, Baffin Region

Nesting Success of Hope Bay Gyrfalcons

Chris Shank
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will determine number of pairs, monitor population trends, band and measure young.

Locations: Hope Bay area

Mating and Behavioural Ecology of Arctic Ground Squirrels

Mark Simpson
Department of Biology
York University
4700 Keele Street
North York, ON M3J 1P3
1991

The researcher will analyse mating behaviour.

Locations: Rankin Inlet

Western Canada Cooperative Waterfowl Banding

John Solberg
US Fish and Wildlife Service
Box 1686
Kearney, NE 68848 USA
1991

The researcher will engage in preseason banding of Mallards, pin tails and other waterfowl at 12 stations.

Locations: Mills Lake Marsh, west of Fort Providence

Ecology and Behaviour of Polar Bears and Seals

Ian Stirling
Canadian Wildlife Service
5312-122 Street
Edmonton, AB T6H 3S5
1991

The researcher will observe and record behaviour of polar bears, determine distribution and abundance of seals/bears.

Locations: Radstock Bay

Environmental Assessment Proposal at Kiggavik

Mark Taylor
Geomatic International
3370 S. Service Road
Burlington, ON L7N 3M6
1991

The researcher will estimate populations of small mammals and birds, collect bone tissue.

Locations: Kiggavik and Andrews Lake Project

Population Boundaries, Movements and Numbers of Polar Bears

Mitch Taylor
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will identify boundaries, establish population size, recommend quotas, check condition/contaminant levels.

Locations: McClure Strait and Viscount Melville Sound

Baffin Bay/Lancaster Sound Polar Bear Inventory

Mitch Taylor
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will capture three female polar bears and cubs and deploy satellite collars.

Locations: Prince Regent Inlet

Baffin Bay Polar Bear Inventory Project

Mitch Taylor
Renewable Resources
GNWT
Box 1320
Yellowknife, NT X1A 2L9
1991

The researcher will deploy up to 10 satellite collars and capture up to 20 or more polar bears.

Locations: north Baffin and Ellesmere Island coastline

Polonium-210 and Lead-210 in the Food Chains

Patricia Thomas
Department of Mammology
University of Saskatchewan
Saskatoon, SK S7N 0W0
1991

The researcher will determine levels of polonium-210 and lead-210 in lichen, caribou and wolves.

Locations: Baker Lake and Snowdrift

U.S. and Canada May Waterfowl Population Surveys

James Voelzer
Waterfowl Population Survey
US Fish and Wildlife Service
1002 N.E. Holiday Street
Portland, OR
1991

The researcher will determine size and species composition of breeding waterfowl in Mackenzie River.

Locations: Fort Smith to Tuktoyaktuk

Fisheries & Oceans Research Permits 1990/1991

Pursuant to Section 4 of the Fisheries Act, the Minister of Fisheries and Oceans grants permisssion to the researcher to obtain fish for scientific purposes.

For more information
please contact
Department of Fisheries & Oceans
Government of Canada
Freshwater Institute
501 University Crescent
Winnipeg, MB R3T 2N6
Phone (204) 983-5000

FISHERIES & OCEANS

Archio, B.

FJMC
Box 2120
Inuvik, NT X0E 0T0
F-91/92-04

The researcher will monitor harvest and collect biological data and samples for beluga whales.

Locations: Inuvialuit Final Agreement Area

Cota, Glen F.

108 Huskins Library
University of Tennessee
Knoxville, TN USA 37996-1610
P-91/92-01

The researcher will investigate biogenic bromine production in Arctic waters, ice algal physiology and sea ice optics.

Locations: Resolute Passage

Friesen, G.

Natural Resources
Government of Manitoba
Box 760
Churchill, MB R0B 0E0
F-91/92-09

The researcher will collect ringed seals for use in Polar Bear control program.

Locations: Churchill Area

Garrel, R.

Illhavik School
Cambridge Bay, NT X0E 0C0
F-91/92-16

The researcher will collect Arctic char for educational purposes.

Locations: Cambridge Bay

Kelly, Brendan P.

Institute of Marine Science
University of Alaska
Fairbanks, AK USA 99775-1080
F-91/92-02

The researcher will investigate social behaviour, diving patterns and navigational abilities of ringed seals. He will also engage in a DNA analysis of ringed seal blood.

Locations: Barrow Strait

Mate, Bruce R.

Hatfield Marine Science Centre
Oregon State University
Neroport, OR USA 97365-5296
F-91/92-03

The researcher will radio tag bowhead whales to investigate behaviour, movements and fall migration routes.

Locations: Beaufort Sea

McKee, P.

Beck Consultants Ltd.
14 Abacus road
Brampton, ON L6T 5B7
F-91/92-12

The researcher will determine the species present in the water of the study area.

Locations: Judge Sissons Lake

Metcalfe, C.D.

Trent University
Peterborough, ON K9J 7B8
F-91/92-06

The researcher will investigate the variation of organo chlorine contaminants in arctic ringed seals.

Locations: Sanikiluaq

Nakayama, T.

Tokyo Sea Life Park
6-2-3-Rinkai-Cho
Edogawa-Ku
Tokyo 134, JAPAN
F-91/92-07

The researcher will collect finfish and invertebrates for research on breeding behaviour and life history. The specimens will be part of a public display.

Locations: Resolute

Parker, Henry H.

Markuset, Gambles Lane
Woodmancote
Cheltenham, UK GL52 4PU
F-91/92-01

The researcher will investigate the apparent biological stability of high Arctic freshwater lakes as reflected in the population dynamics of the Arctic char population.

Locations: Borup Fiord

P.P.C.L.I.

Third Battalion
FMO Victoria, BC B0S 1B0
F-91/92-19

The researchers will collect Arctic char during survival training.

Locations: Hall Lake area

P.P.C.L.I.

Kapyong Barracks
561 Kenaston Boulevard
Winnipeg, MB R3N 1V9
F-91/92-21

The researchers will collect Arctic char during survival training.

Locations: Coppermine area

Reimer, K.J.

RRMC
FMO Victoria, BC V0S 1B0
F-91/92-11

The researcher will examine the migration and impact of inorganic and organic contaminants into the marine environment through the collection of molluscs, crabs and sculpins.

Locations: Cambridge Bay

Romano, T.

University of Rochester
School of Medicine
Box 603, 601 Elmwood Avenue
Rochester, NT 14642
F-91/92-08

The researcher will investigate the nervous and immune systems of the beluga whale.

Locations: Churchill area

Rosen, M.

Arctic College
Box 600
Fort Smith, NT X0E 0P0
F-91/92-14

The researcher will collect finfish present for educational purposes.

Locations: Tsu Lake

Rosen, M.

Arctic College
Box 600
Fort Smith, NT X0E 0P0
F-91/92-20

The researcher will collect lake trout, lake white fish, northern pike, walleye and incidental species for educational purposes.

Locations: Slave River

Royal Canadian Dragoons

CFB Patawawa
Patawawa, ON K8H 2X3
F-91/92-18

The researchers will collect Arctic char during survival training.

Locations: Pond Inlet area

Sekerak, A.

Applied Environmental Services
Box 1148
Yellowknife, NT X1A 2NB
F-91/92-15

The researcher will document the upstream migration of Arctic char prior to stream habitat enhancement.

Locations: Clyde River

Stirling, Ian

Canadian Wildlife Service
5320 122 Street
Edmonton, AB T6H 3S5
F-91/92-05

The researcher will monitor condition and reproductive parameters of ringed seals as part of an investigation of declining weights of polar bears.

Locations: Arviat-Churchill area

Thornston, S.

NRI, University of Manitoba
Winnipeg, MB R3T 2N6
F-91/92-10

The researcher will inventory benthic invertebrates, pelagic invertebrates and finfish.

Locations: Churchill area

Werring, J.

Redscan Environmental Service Ltd.
Suite 520
Coopers and Lybrand Building
1111 West Hastings Street
Vancouver, BC V6E 2J3
F-91/92-17

The researcher will investigate fisheries resources present to establish base-line data.

Locations: Hood River area

Wilson, C.C.

Department of Zoology
University of Guelph
Guelph, ON N1G 2W1
F-91/92-13

The researcher will examine genetic diversity and hybridization between lake trout and Arctic char.

Locations: Manville Peninsula

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